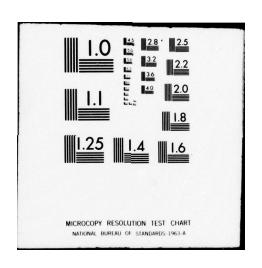
NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS). CHASE F--ETC(U) AD-A067 678 JUL 78 UNCLASSIFIED NL OF 4 AD A0876 盟 生肥 173 



AD-A 067678



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SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

REPORT DOCUMENTA	ATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
I. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
. TITLE (and Subtitle)		5. TYPE OF REPORT & PERIOD COVERED
Summary of Meteorological Ob (SMOS) Chase Field, Texas	servations, Surface	Reference report 1945-77
(SMOS) Chase Field, Texas		6. PERFORMING ORG. REPORT NUMBER
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17. DISTRIBUTION STATEMENT (of the ebstract entered in Block 20, If different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, Naval shore facility, coastal region, snow depth, cloud cover, Chase Field, Texas.

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/ Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure

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SECURITY CLASSIFICATION OF THIS PAGE (When Date Brit

129	ON SUMMARY	Chase Field	(Beeville),	Texas	28°	22'N	97°40'W	STATION ELEV (FT)	KNIR	WW0 4045	.*
		STATION	LOCATI	ON A	ND IN	ISTRU	MENTA	TION HI	STOR	Y	
HE BARQ		GEOGRAPHICAL LOCATION & NAI	u F	TYPE	AT THIS LOCA	TION	LATITUDE	LONGITUDE	ELEVATION	ABOVE MSL	DBS
CATION				STATION	FROM	то			FEET	TYPE BAROMETER	DAY
1.		office, located heast corner of		NAAS	1954	1956	28°22'N	97°40'W	203	Mercurial	24
2.	11	и и и		"	1956	1958	"		208	"	24
3.		Service Office the Ops Bldg	located 1st	"	1958	1962	n	"	196	"	24
4.	u			NAS	1962	1976	11	"	200	"	24
la.		Service Office the Ops Bldg	located 1st	NAS	1971		"	u	202	Aneroid	24
MBER	DATE		SURFACE WIND	EQUIPMENT INFORM	MATION						
OF	OF CHANGE		LOCATION		TYPE OF	TYPE OF RECORDER	HT ABOVE GROUND	REMARKS, ADDIT	IONAL EQUIPMENT.	CR REASON FOR CHANG	ΞE
1.	Installed 1954	Second deck in corner of hang		ast	AN/UMQ- 5C		3B 56'	1. Barogra 2. Semi-au 3. Ceiling	to Met.St	a (AN/GMQ-	14B)
2.	1955	Weather office	(replacemen	it)		"		5. Transmis	ssometer	(AN/GMQ-1 (AN/GMQ-10	
3.	1957								AN/FPS-10 vision (A	6) N/GMQ-19A)	
4.	1960	On top of towe			"	"	71'				
5.	1962	Between the pa	rallel runwa	ys	"	"	14'	0. 5			
							149	04	14	401	9

#### SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

DIRNAVOCEANMET 1tr 3146 Ser 1032 dated 26 August 1977 (NOTAL) established the following policy for SMOS production and updating:

- 1. Ten years of data will be used as the standard period of record (POR).
- 2. All available data will be used for extreme values.
- 3. Summarize (update) every five years.
- a. Summarize the five year period (1973-1977) for all sections of the SMOS except extremes. The 5 year summary will be an intermediate SMOS to show secular trends. All available data through 1977 will be included for extreme values.
- b. The update in 1983 will include the POR 1973 through 1982, with all available data through 1982 for extreme values.
- c. The update in 1988 will be an intermediate SMOS (POR 1983-1987). All available data through 1987 will be included for extreme values.
- d. In 1993 the POR will be 1983 through 1992. All available data through 1992 will be used for extreme values.

Each standard POR (10 years) summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

<u>DESCRIPTION</u>: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

<u>COMMENT</u>: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during, the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of ".0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Weather Service Detachment (NWSD), Asheville, N. C. welcomes your comment and criticisms.

NWSD, Federal Building Asheville, N. C.

#### PART A

### WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

- 1. By month and annual, all hours and years combined.
- 2. By month and annual, all hours and years combined, by wind direction.
- 3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

<u>Percentage of observations with precipitation</u> - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

#### PART A

#### ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949.

Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

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CHASE FIELD, TEXAS

73-77

JAN

PERCENTAGE FREQUENCY OF DCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00	,6	11:6	1,3			12.9	24,5	,6			25.2	155
	03	.6	14.8				14.8	25.8				25.8	155
	06		18.7	.6	.6		20.0	30.3	.6			30.3	155
	09		13.5	1.3			14.8	41.9	3.2			44.5	155
	12		13.5	.6			14.2	21.9	3,2			25,2	155
	15		11.0	,6			11.6	14.2	,6			14.8	155
	18		13,5	1.3			14,8	14,2	1,9			16,1	155
	21		11.0	1,3			12,3	14,8	,6			14,8	155
	-6												
TOTALS		• 2	13,5	.9	.1		14.4	23,5	1,3			24.6	1240

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CHASE FIELD, TEXAS

73-77

FEB

## PERCENTAGE PREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	NO. OF OBS.
FEB	00		7.8		.7		8,5	11.3	,7			12.1	141
	03		7.8		.7		8,5	20.6			.7	21.3	141
	06		9,2	.7			9,9	30.5			.7	31.2	141
	09		12.1				12,1	31.2	4,3		,7	34.8	141
	12		7,8				7,8	6.4	1.4		.7	8.5	141
	15		6.4				5,4	4,3	2.1			6.4	141
	18		5.0				5.0	5.7	1.4			7.1	141
	51		5.4		,7		7,1	5.0				5.0	141
TOTALS			7,8	- 1	.3		8,2	14,4	1.2			15.8	1124

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CHASE FIELD, TEXAS

73-77

YEARS

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CUNDITIONS FROM HOURLY OBSERVATIONS

монтн	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	00	•6	9.7				9.7	25.2	1.9		1.9	28,4	155
	03	.6	5.8				5,8	30.3	.6		1.3	32.3	155
	06	,6	11.0				11.0	35,5			1.3	36,8	155
	09	.6	11.6				11.6	38.1	9.0		.6	45.8	155
	12		11.0				11.0	10.3	7.7		1.3	18.1	155
	15	.6	5.8				5,8	2.6	6,5		.6	9.7	155
	18	.6	5,2				5,2	4,5	5,8		.6	11.0	155
	21		7.1				7.1	16.1	3,9		,6	20.0	155
TOTALS		.5	8,4				8,4	20.3	4.4		1.0	25,3	1240

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CHASE FIELD, TEXAS

73-77

YEARS

APR

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00	2.0	7,3				7,3	20.0	3,3			22,7	150
	03	.7	6.0				6.0	26.0	5,3			30.7	150
	06	3,3	10.7				10,7	40.7	7,3			47.3	150
	09	3.3	8,7	4-			8,7	22.0	12.7			32.7	150
	12	,7	8,7				8,7	5,3	8.0			13,3	150
	15		6.7				6,7	5.3	6,7			11.3	150
	18	.7	2.0				2.0	3,3	12.7			16.0	150
	51	1.3	6.7				6,7	7,3	7,3			14.7	150
TOTALS		1.5	7.1				7,1	16,2	7,9			23,6	1200

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12925 CHASE FIELD, TEXAS 73-77 YEARS HONTH

# PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00	3.2	3.2				3,2	14.2	5.2	1		19,4	155
	03	1.9	2.6				2.6	29.0	5.2			32.3	155
	06	1.9	5,2				5,2	54.8	9.7			60.6	155
	09	2.6	5.8				5,8	12.9	14.2			23.2	155
	12	•6	3.9				3,9	,6	11.0			11.0	155
	15	,6	9.0				9,0	1.9	8.4			9.7	155
	18	3,2	5,2				5,2	.6	8,4			9.0	155
*	21	1.3	3.9				3,9	2.6	7,1			9.0	155
	al a												
TOTALS		1.9	4.9				4,9	14.6	8,7			21.8	1240

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CHASE FIELD, TEXAS 73-77 JUN

# PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

монтн	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	00		1.3				1.3	2.7	2.0			4,7	150
	03	.7	3,3				3,3	14.0	1,3			15.3	150
	06	3,3	2.7				2,7	44.0	5,3			48.0	150
	09	4.0	6.7				6,7	4,0	5,3			9,3	150
	12	3,3	5,3				5,3	,7	2.7			3,3	150
	15	4.0	6.7				6,7	1.3	4.0			5,3	150
	18	2.7	6.7				6.7	.7	3,3			4.0	150
	21	,7	4,0				4,0		4.0			4,0	150
TOTALS		2.3	4.6				4.6	8,4	3,5			11.7	1200

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### WEATHER CONDITIONS

CHASE FIELD, TEXAS 73-77 JUL

# PERCENTAGE PREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00		2.6				2.6	.6				.6	155
	03		3.9				3.9	7.7				7.7	155
	06	1.3	3.9				3,9	46.5	2,6			48.4	155
	09		3.9				3,9	1.9	1,9			3.9	155
	12	3.2	8.4				8,4		,6			,6	155
	15	4,5	7.7				7,7	.6	1.3		7 - 1	1.9	155
	18	1.3	5,2				5,2		1,3			1.3	155
	21		1.3				1.3						155
TOTALS		1.3	4:6				4.6	7.2	1.0			8.1	1240

12925 STATION

CHASE FIELD, TEXAS

73-77

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	00	.6	.6				.6	1.9	5.2			7,1	155
	03	.6	3,2		# 1		3,2	12.9	7.1			16.1	155
	06	,6	2.6				2,6	51.6	11.0			52,9	155
	09		1.9				1,9	3,9	12,3			16.1	155
	12	4.5	7,7				7,7		5,2			5,2	155
	15	12.3	9.7				9,7		5,2			5,2	155
	18	3,2	5.8				5,8		5.8			5,8	155
	21	,6	1.3				1.3	.6	5,8			6,5	155
	1.*												
TOTALS		2.8	4.1				4.1	8.9	7.2			14.4	1240

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WEATHER CONDITIONS JAN 68

12925 STATION CHASE FIELD, TEXAS

73-77

YEARS

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# PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00	2.0	3.3				3.3	5,3	5,3			10.7	150
	03	2.7	5,3				5,3	20.7	3,3			21.3	150
	06	2.7	6.7				6.7	36.0	4,0			38,0	150
	09	1.3	6.0				6.0	10.7	8,7			17.3	150
	12	2.0	6.0				6.0		9,3			9,3	150
	15	6.0	1.3				1,3	1.3	4,0			5,3	150
	16	2.0	1.3				1,3	.7	5,3			6,0	150
	51	3,3	4.0				4.0	2.0	6,7			8,0	150
							4						
TOTALS		2.8	4.2				4.2	9.6	5,8			14.5	1200

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### WEATHER CONDITIONS

CHASE FIELD, TEXAS

# PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

монтн	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DCT	00	1.9	7.7				7.7	8.4	2,6			10.3	155
	03	1.3	5.8				5.6	22.6	4.5			25,8	155
	06		7,7				7.7	31.0	7,1			33,5	155
	09	.6	7.1				7,1	13,5	14.2			25,8	155
	12	.6	8,4				8.4	1.9	7,1			9.0	155
	15	.6	7,7				7.7	1.9	3,2			5.2	155
	18	,6	6,5				6,5	2.6	5.2			7,7	155
	21	,6	4,5				4,5	1.9	1.3			3,2	155
											1		
TOTALS		. 8	6.9				6,9	10.5	5,7			15.1	1240

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WEATHER CONDITIONS

12925 CHASE FIELD, TEXAS 73-77 YEARS NOV

# PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00		7.3		.7		7.3	15.3				15.3	150
	03		8.0				8.0	26.7				26,7	150
	06	.7	10.0				10.0	30.7				30.7	150
	09		8.7		.7		8,7	26.0	4.0			28.7	150
	12		7,3		.7		8.0	8,7	2,7			11.3	150
	15	.7	5,3				5,3	5,3	1.3			6,7	150
	18	777	6,7				6.7	4,7	2.0			6.0	150
	21		5,3				5,3	4.0	.7			4,0	150
TOTALS		.2	7.5		.3		7,4	15.2	1.3			16.2	1200

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		73-77	200
12925	CHASE FIELD, TEXAS		DEC
STATION	STATION NAME	YEARS	MONTH

# PERCENTAGE FREQUENCY OF DCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

TOTALS			7.4	-1			7.4	13.6	1.1		,2	14.8	1240
	21		5.2			*	5,2	8,4				8,4	155
	18		9.0				9.0	9,7				12.3	155
	15		7.7			-	7.7	4,5				6,5	155
	12		7.1				7.1	7,7	1.3			9.0	155
	09		9.7				9,7	28.4	2.6		.6	30.3	155
	06		6,5				6,5	21.3			,6	21.9	155
	03		7.1				7.1	15.5	,6		,6	16,8	155
DEC	00		6.5	.6			7.1	13.5				13.5	155
MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	NO. OF OBS.

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YEARS

ALL

# PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL	•2	13.5	.9	.1		14.4	23.5	1.3			24,6	1240
FEB			7.8	-1	,3		8.2	14.4	1.2		,4	15.8	1128
MAR		.5	8.4				8,4	20.3	4,4		1.0	25,3	1240
APR		1.5	7.1				7.1	16.2	7,9			23,6	1200
MAY		1,9	4,9				4,9	14,6	8,7			21.8	1240
JUN		2.3	4.6				4,6	8.4	3,5			11.7	1200
JUL		1.3	4.6				4,6	7.2	1.0			8.1	1240
AUG		2.8	4.1				4.1	8.9	7,2			14,4	1240
SEP		2.8	4.2				4,2	9,6	5,8			14.5	1200
UCT		. 8	6.9				6.9	10.5	5,7			15.1	1240
NOV		•2	7,3		.3		7,4	15.2	1,3			16,2	1200
DEC			7.4	.1			7.4	13.6	1.1		,2	14.8	1240
TOTALS		1.2	6.7	.1	.1		6.8	13.5	4.1		.1	17.2	14608

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5701 WEATHER CONDITIONS JAN 68

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# WEATHER CONDITIONS ATMOSPHERIC PHENUMENA

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CHASE FIELD, TEXAS

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5701 WEATHER CONDITIONS JAN 38

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PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAICY	2.8	45,6	1.5	.7		45.7	56.4	15.3		,1	58.9	713
FEB		3,5	41.2	.6	1.2	•2	41.4	53.7	13.2		1,1	56.9	650
MAR		6.6	42.9		.1	• 7	42.9	56.0	23.6		2.2	62.1	713
APR		11.2	43.6			.7	43.6	59.1	37.0		2.0	68.6	690
MAY		17.3	39,1			•6	39.1	58.3	34.9		,3	69.0	713
JUN		16.2	31,3			•6	31.3	47.1	16.7		.3	52.8	690
JUL		14.4	25.4			•1	25,4	38.1	12.6			44.0	700
AUG		20.9	36.1			•1	36.2	39.2	14.1		.1	44.5	743
SEP		20.7	43.2				43.2	47.8	19.3		,1	53.1	720
DCT		8.6	33,5				33.5	50.4	16.4		,3	54.0	744
NOV		3.5	35,4		.7		35.4	48.6	12.8	7	.4	51.1	720
DEC	£.	1.9	38.7	.3	.3		38,7	50.8	15.3		.8	53.5	744
TOTALS	*	10.6	38.0	. 2	.2	• 2	38.0	50.5	19.3		.6	55.7	8540

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

CHASE FIELD, TEXAS JAN 73 - DEC 77 12925

JANUARY

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW "GRAINS "PELLETS "SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	9.4	2.6	15.4	2.3				.4	27.8	1.9	. 8			63.2
NNE	6.4		8.3						27.5	5.5				65.1
NE	11.3		9,9						25.4	7.0	1.4			63.4
ENE	17.9	2.6	7.7						33.3					61.5
E	18.4		2.0						22,4	4.1	2.0			71.4
ESE	4.8	2.4						2.4	19.0	2.4				78.6
SE	2.4		1.2						8.4	4.8	1,2			85,5
SSE	. 9	1.8							11.7	3.6	3,6			78.4
s	1.1	1.1							10.9	2.2	4,3			80.4
ssw	2.9		2.9						3,9		2,9			91.2
sw			7.1						7.1	7.1				85.7
wsw									5.6	5,6	5,6			88,9
w	5,9		2.9						8.8	8,8				76.5
WNW	2.9		8.6						17.1	5.7				77.1
NW	3,4	1.7	6.9						12.1	1.7				86,2
NNW	3.2	1.1	11.7	1.1	1.1				19.1	4,3				72.3
VARIABLE														
CALM	><	<b>&gt;</b> ₩	> <	><	><	><	><		34	<b>Mag</b>	>40	><	><	> M
TOTAL	71	15	90	11	1			2	234	57	17			900
% TOTAL	5.7	1.2	7.3	. 5	.1			. 2	18.9	4.6	1.4			72.6

TOTAL NUMBER OF OBSERVATIONS

1,240

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## PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

12925 CHASE FIELD, TEXAS JAN 73 - DEC 77 FEBRUARY A

WIND	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	" GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING	BLOWING SAND AND DUST	NO WEATHER
N	5.6	1.3	5.0						10.0	3.8				80.6
NNE	6.0		4.8						7.1	_	1.2			77.4
NE	30.6		2.0	/					20.4	4.1				61.2
ENE	16.4		8.2						26.2	11.5	4.9			49.2
E			2.4						14.6		4,9			70.7
ESE	1.8		1.8						8.9	7.1	1.8			80.4
SE	. 8	.8							6.4	1.6	. 8			91.2
SSE	3.2	.6							9,6	3.8	2,6			84.0
s			4.1						3,1	3,1	1.0			89.8
SSW		3.0							6.1	3.0				87.9
sw	11.1								11,1					88,9
wsw			7.7						7.7					84,6
w			4.2											87,5
WNW									3,8				3,8	92.3
NW	1		6.1			2.0			14,3	4.1				81,6
NNW	2.9		5.8	1.	1.4	1.4			7.2					85,5
VARIABLE														
CALM	><	><	>0	><	><	><	$\geq <$	><	<b>&gt;</b>	>₩	<b>&gt;</b> ₹	><	><	>H
TOTAL	49	9	34		1 1	2			108	54	14		1	912
TOTAL	4.3	.4	3.0		1 .1	. 2			9,0		1.2		.1	80.9

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#### PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

CHASE FIELD, TEXAS JAN 73 - DEC 77

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHO WERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING	BLOWING SAND AND DUST	NO WEATHER
N	2.4	3.3	7.3					.8	13.8	.8	1.6			76.4
NNE	2.4		10.6						22.4		5,9			65.9
NE	4.4		1.5						19.1	5,9				72.1
ENE	1.5	1.5	2.9					1.5	7.4		2.9			82.4
E	5.6		1.5						19.4	10.2	6,5			63.0
ESE	1.7	3.4	6.0					1.7	27.4	2.6	4,3			63.2
SE	1.5	2.9	4.4						14.7	3.4	4,9			74.0
SSE	1.6	1.6	2.7						10.3	4.3	5.4			77.8
s	2,3								13.6	9.1	12.5			64.8
SSW			12.5						25.0					75.0
sw									44.4					44,4
wsw									9.1					81.8
w		7.1							14.3	7.1	7.1			71.4
WNW		3,3	3.3					3.3	20.0					73,3
NW	4.0	4.0							4.0	4.0				80.0
NNW		4.3	2.1						8.5	2,1			2.1	76.6
VARIABLE														
CALM	><	>40	>20	><	><	><	><	>40	X	>6	>4	><	><	<b>&gt;</b>
TOTAL	26	30	49					6	196	56	54		1	892
% TOTAL	2.1	2.4	4.0					.5	15.8	4.5	4.4		•1	71.9

1,240 TOTAL NUMBER OF OBSERVATIONS

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## PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

12925 CHASE FIELD, TEXAS JAN 73 - DEC 77 APRIL ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING	BLOWING SAND AND DUST	NO WEATHER
N	4.7	3.5						2.3	10.5	5,8	2,3			79.1
NNE	1.3		3.8						11.4	7,6	2.5			77.2
NE	1.8	3.6	3,6					1.8	14.3	7.1	7.1			71.4
ENE	3,2	1.6							9,5	14.3	6,3			69.8
Ε	2.5	4.2	1.					2.5	10.8	9.2	3,3			70.8
ESE	1.2	2.3	4.1					.6	14.0	6,4	6.4			71.9
SE	1.4	1.7	3.4					.7	8,5	3.7	14.6			71.1
SSE	.7	1.5	1.5						12.6	3.0	14.8			71.9
s	2.7	5.4						2.7	8.1	5.4	10.8			70.3
ssw		16.7						16,7						83,3
sw		11.1						22.2		11.1				77.8
wsw									20.0					80,0
w	-	14.3								28.6				71.4
WNW		12.5						12,5						87.5
NW		15.0						5.0	5.0	5.0				80.0
NNW	2.2	13.0						6.5	2.2					84,8
VARIABLE														
CALM	><	<b>&gt;₹</b>	><	><	><	><	$\geq \leq$	><	><	अस्त	>	><	$>\!<$	>h
TOTAL	20	39	26					18	121	74	95			881
% TOTAL	1.7	3.3	2.2					1,5	10.1	6.2	7.9			73.4

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_\_\_ 1,200

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CHASE FIELD, TEXAS

JAN 73 - DEC 77

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW "GRAINS "PELLETS "SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING	BLOWING SAND AND DUST	NO WEATHER
N	1.1	2.2						2.2	5.4	7.6	5.4			81.
NNE	2.1	6.4						5.4	8.5	6,4	4.3			74.
NE		10.2						10.2	12.2	12.2	10.2			57.
ENE	1.5		3.0					3.0	16.4	13.4	10.4			56.
E	.9	1.7	. 9					.9	9.5	16.4	7.8			67.
ESE	.6							. 6	5.2	5.8	8.1			77.
SE	1.4	2.8	• 7					1.7	4.1		13.1			76.
SSE	1.1	1.1	.5	1				.5	8.2	2.2	8,2			79.
S		1.5							12.3	1.5	10.8			73.
SSW		7.1						7.1	14.3					71.
sw		14.3						14.3						85.
wsw														100.
w	8.3													91.
WNW		27.3						9.1		9.1				63,6
NW		6.7							13.3	13.3	13.3			60.0
NNW		3.2								3,2				93.
VARIABLE														V
CALM	>40	>40	>K	><	><	><	><	>42	> <	36.2	>6	><	><	>600
TOTAL	13	41	7					24	90	91	107			91
% TOTAL	1.0	3.3	.6					1.9	7.3	7.3	8.6			74.

TOTAL NUMBER OF OBSERVATIONS

1,20

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## PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

12925 CHASE FIELD, TEXAS JAN 73 - DEC 77 JUNE ALL
STATION STATION NAME HOURS

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING	BLOWING SAND AND DUST	NO WEATHER
N	6.3	3.1			1			3,1	3.1	6.3	6,3			81.3
NNE	3.4	8.6						5.2	3,4	6,9	5.2			72.4
NE	4.4	8.9							2.2	4.4	2.2			80.0
ENE	2.7	4.1						1.4	1.4	4.1	6,8			78.1
E	1.0	4.1						3.1	2.1	10.3	1.0			80.4
ESE	,7	3.6						2.2	2.2	6,6	1.5			86.9
SE		2.3						2.3	.3	2.6	3,6			90.
SSE		1.0							.5	6.1	3.0			89.4
S		1.9							2.9	5.7	3.8			85.7
ssw		7.1						14.3	7.1					78.6
sw														100.0
wsw														100.0
W		25.0												75.0
WNW		14.3	164					7.1		28,6				64.3
NW		16.7						8.3		8,3	8,3			66.7
NNW		10.5						15.8	10.5	26,3	5,3			42.1
VARIABLE														
CALM	><	<b>&gt;</b>	><	$\geq <$	><	><	$\geq <$	<b>&gt;</b>	<b>&gt;</b>	700	<b>&gt;</b> ₹	><	><	700
TOTAL	10	45				,		28	22	79	. 41			1003
% TOTAL	.8	3.8						2.3	1.8	Secretary and the second	3,4			83,6

TOTAL NUMBER OF OBSERVATIONS 1,200

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## PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

JAN 73 - DEC 77 CHASE FIELD, TEXAS

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DPIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING	BLOWING SAND AND DUST	NO WEATHER
N		16.7							8.3	16.7				58.
NNE	3.4							6.9		17.2	3.4			62.
NE	8.0							8.0		4.0				76.
ENE	1.6							1.6	1.6	17.2	1.6			67.
E	5.1							3.0	4.0		1.0			73.
ESE	.7							2.0	2.7	2.0	1.3			90.
SE	-	.9						,3	.3		1.2			95.
SSE		1.1								1.6	.5			96.
s	.6							1.3	1.3		1.3			93.
SSW		3.6						3,6		3.6				92.
sw	-	9.1								18.2				72.
wsw		7.7								7.7				84.
w	•													100.
WNW														100.
NW														
NNW										42.9				57.
VARIABLE														
CALM	$\geq <$	>	><	><	><	><	$\geq \leq$	>~	>20	746	$>\!<$	><	><	70.
TOTAL	11	46						16	16	73	12			108
% TOTAL	. 9			1				1.3	1.3		1.0			87.

1,240 TOTAL NUMBER OF OBSERVATIONS

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#### PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

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WEATHER JAN 68

5708 % FREG. WIND DIR.

12925

CHASE FIELD, TEXAS

JAN 73 - DEC 77

AUGUST

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING	BLOWING SAND AND DUST	NO WEATHER
N		2.4								38.1	21.4			45.2
NNE	1.6	4.8						1.6	3,2	21.0	12.9			61.3
NE	2.1	2.1						4.2	2.1	16.7	16.7			62.5
ENE	1.1	3.4						2.2	1.1	11.2	10.1			71.9
E		8.0						3.2	. 8	7.2	4.8			78.4
ESE	.7	4.6				1		4.5		3.3	4.6			85.4
SE	. 4	3.3						3.3			2.9			92.2
SSE	.7	1.4						2.2		2,9	5.1			38.4
5		1.6						2.4		. 8	. 8			95.2
ssw		11.8						11.8		5,9	11.5			70.6
sw														100.0
wsw		8.3						8.3						83,3
w											8,3			91.7
WNW		16.7								33,3	33,3			50.0
NW		15.4						7.7		30.8	23.1			46.2
NNW										33,3	13,3			60.0
VARIABLE														
CALM	><	<b>&gt;</b> ₩	><	><	><	><	$\geq <$	><0	>	75	<b>SK</b>	><	><	700
TOTAL	6	45						35	7	103	89			997
% TOTAL	.5	3.6						2.8	. 6	8.3	7.2			80.4

1,240 TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

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# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

JAN 73 - DEC 77 CHASE FIELD, TEXAS SEPTEMBER

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING	BLOWING SAND AND DUST	NO WEATHER
N									3.4	4.3	6,8			70. 61. 60.
NNE	1.0	2.9							5.7	12.4	8.6			70.
NE		6.5						4.3	2.2	17.2	12.9			61.
ENE		10.8						10.8	4.1		8.1			60.
E		4.5						3.7	2.2		6.7			76.
ESE		4.3					1	2.6	1.7	7.0	10.4			78.
SE		2.7						2.1	.7		4.1			90.
SSE		4.1						1.0		1,0	3,1			91.
s		2.6						1.3		2.6	1.3			91.
SSW											5,3			94, 62, 80, 66,
SW								25.0		12.5				62.
wsw		20.0						20.0						80.0
w	6.7									6.7	13.3			66.
WNW														100.
NW		6.5	3.2					3,2		6,5				100.0
NNW								3.6		1,8				94.6
VARIABLE														
CALM	><	>40	><	><	><	><	$\geq <$	>40	<b>&gt;</b>	<b>MASS</b>	<b>&gt;</b> √0	><	><	<b>X</b>
TOTAL	2	47	,					33	22	93	70			964
% TOTAL	• 2	3.9	•					2.8	1.8		5,8			80.4

1,199 TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

WEATHER JAN 68 5708 % FREQ. WIND DIR.

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CHASE FIELD, TEXAS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

JAN 73 - DEC 77

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING	BLOWING SAND AND DUST	NO WEATHER
N	9.6	5.9	1.5	8				1.5	2.2	3.7	2.9			75.0
NNE	11.9	5.1						. 8	11.9		10.2			61.9
NE	6.1	3.7						1.2	8.5	6.1	9,8			70.7
ENE	2,3	2.3	-					1.1	4,5	10.2	8.0			76.1
E		6.4						.9	2.7	8.2	6.4			77.3
ESE	1.5	3.1						. 8	. 8	5.3	5.3			85.5
SE		1.8								2.4	4.3			91.5
SSE	1.2	3.7						1.2	1.2		3.7			90.1
s										2.2				97.8
ssw														100.0
sw														100.0
wsw														100.0
w		7.7						7.7		7.7	7.7			76.9
WNW	5.6									5.6				88,9
NW	3.0		6.						9.1	6.1	3.0			84.8
NNW	4.8	3.2						1.5	3,2	11.1	7.9			74.6
VARIABLE														
CALM	><	$> \sim$	><	><	><	><	$\geq \leq$		>0	740	>4	><	><	M
TOTAL	42	40						10	42	88	70			987
TOTAL	3.4	3.2	• :					. 8	3.4	7.1	5.6			79.6

TOTAL NUMBER OF OBSERVATIONS

1,240

NAVWEASERVCOM

TEWEATHER JAN 68 5708 % FREO. WIND DIR.

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## PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

12925 CHASE FIELD, TEXAS

JAN 73 - DEC 77

NOVEMBER

HOURS

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING	BLOWING SAND AND DUST	NO WEATHER
N	7.1	3.0	7.7		. 6			.6	7.7	5.9	1.2			75.1
NNE	2.9		3.8						12.5		4.8			75.0
NE	3.6	1.8	1.8						5.4	16.1	3,6			75.0
ENE	1.8	1.8	1.8						10.7	8,9				76.8
E	1.5								4.5	4.5				91.0
ESE									4.1		1.4			87.7
SE	. 6	3.2							7.7	4.5	.6			83.9
SSE	3,5	3.5	. 9						5,2	6.1				85.2
s	1.3	1.3							5.2		2.6			84.4
ssw	7.1								7.1	21.4				71.4
sw									14.3					85.7
wsw	16.7								16.7					83,3
w	16.7									8,3				83,3
WNW	4.3								8,7	8.7				82.6
NW	7.1		3.6		1.8				5,4	8,9				78,6
NNW	6.5	. 9	3.7		.9			.9	3.7	5.6	.9			78.7
VARIABLE														
CALM	><	>20	<b>&gt;</b>	><	><	><	><	><	X	75	>200	><	><	No.
TOTAL	41	20	27		3			2	90	92	16			955
TOTAL	3.4	1.7	2.3		.3			.2	7.5	7.7	1.3			79.6

NAVWEASERVCOM

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MEATHER JAN 68

5708 % FREQ. WIND DIR.

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#### PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

CHASE FIELD, TEXAS

JAN 73 - DEC 77

DECEMBER

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING	SAND AND DUST	NO WEATHER
N	5.8	.4	4.4						8.9	3.6	1.3			79.
NNE	4.5		3.6						9.9	3,6	1.8			82.
NE	1.6		3.2						11.1	1.6	3,2			81.
ENE	10.5		2.6						18.4	7,9	5,3			68.
E	4.3	1.4	2.9						17.1	4.3				75.
ESE			2.6						5.1	12.8	2.6			76.
SE	2.8	1.4		1.4					5,6	5,6	2.8			86.
SSE	6.4		. 9						9.2	2.8	.9			84.
s	2.8								4.7	1.9				93.
ssw			3.1						9,4	3.1				87.
sw			5.0						5.0	10.0	5.0			85.
wsw									9.1					90.
w	16.1	3.2	3.2						12.9	3.2				74.
WNW	6.8	2.3	2.3						11.4					81.
NW	1.5		4.6						4,6	4.6				90.
NNW	6.4	1.1	3.2						8,5					84.
VARIABLE				-				,						
CALM	> 18	><	>	><	><	><	><	><	>HC	>k?	><	><	><	76
TOTAL	55	6	34	1					116	51	14			101
TOTAL	4.4		2.7	.1					9.5	4.1	1.1			82.

1,240 TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

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WEATHER JAN 68

5708 % FREQ. WIND DIR.

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## PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

12925 CHASE FIELD, TEXAS

JAN 73 - DEC 77

ALL

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING	BLOWING SAND AND DUST	NO WEATHER
N	5.6	2.5	5.7	.4	•1			.7	11.2	4.9	2.7			75.0
NNE	4.3	2.7	3.3	.4				1.0	11.7	8.6	5.0			70.8
NE	5.7	3.5	2.0					2.1	10.8	8.9	6.1			68.
ENE	4.1	3.6	1.6					2.1	9,5	10.6	5.9			68.8
E	2.6	3.9						1.8	7.9	8,9	4.1			74.5
ESE	1.0	3.4	1.2					1.6	6.9	5.2	4.7			80.3
SE	.7	2.1	. 9	.0				1.1	4.2	2.7	5,4		1-	85.4
SSE	1.5	1.6	. 6					.4	5.7	3.3	4.4			84.8
s	. 8	1.4						.7	4,7	3.4	3.4			86.6
SSW	. 8	3.0	1.1					.3.0	6.3		1.7			85,2
SW	.9	2.6	1.6					4.4	7.0	6.1	.9			81.6
wsw	1.0	2.9	1.0					1.9	5.8	1.9	1.0			86.5
w	6.0	3.8	1.6				- I Carrier I I Carrier	.5	4,9	5.4	2.7			79.3
WNW	2.6	3.8	2.1					1.7	8,5	5.1	.9		.4	80.9
NW	2.4	3.2	4.0		.3	.3		1.1	7.2	6.4	1.9			81.2
NNW	3.4	2.5	3.5	. 3	.5	. 2		1.5	6,8	5,4	1.4		• 2	79.5
VARIABLE														
CALM	$> \sim$	<b>&gt;€</b>	>KQ	><	><	><	$\geq <$	><0	><	7	<b>&gt;</b>	><	><	<b>&gt;140</b>
TOTAL	346	379	272	13	5	2		174	1066	911	599		2	11511
% TOTAL	2.4	2.6	1.9		.0	.0	-	1.2	7.3	6.2	4.1		•0	78.8

TOTAL NUMBER OF OBSERVATIONS

14,607

NAVWEASERVCOM

5708 % FREG. WIND DIR. WWEATHER JAN 68

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NWSD, Federal Building Asheville, N. C.

#### PART B

#### PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

> PRECIPITATION SNOWFALL\*

SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS

DERIVED FROM DAILY OBSERVATIONS

DERIVED FROM DAILY OBSERVATIONS

- 1. The first table for each of the above presents the <u>percentage frequency</u> of <u>various</u> daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
- 2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations From beginning of record thru 1945 Snow depth at 0800 LST Jan 46-May 57 Jun 57-present

Jun 57-present

Snow depth at 1230 GCT Snow depth at 1200 GCT

U. S. Navy and Weather From beginning of record thru Jun 52 Bureau Stations Jul 52-May 57

Snow depth at 0030 GCT Snow depth at 1230 GCT Snow depth at 1200 GCT

<sup>\*</sup> Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956,

#### **DAILY AMOUNTS**

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5722 Daily Amounts Jan. 1969

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(FROM DAILY OBSERVATIONS)

12925 STATION

CHASE FIELD, TEXAS

45-461 54-77

YEARS

						AM	OUÑTS (II	NCHES)						PERCENT		MONT	HLY AMO	DUNTS
PRECIP.	NONE	TRACE	.01	.0205	.0610	.1125	.2650	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	AF A	NO.		(INCHES)	
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3 .5-4 .4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4	MEASUR-	OF OBS.	MEAN	GREATEST	LEAST
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120	AMTS			One-rico.	
JAN	54.2	21,2	4.7	5,0	5.4	4.4	2.4	1,7	.8	.1				24,6	744	1,58	6.15	TRACE
FEB	58.7	18,3	3.4	5,3	2.1	4:4	3.1	2,8	1.9					23,0	678	2.08	6.56	.03
MAR	57.5	23,5	3.5	6,6	2,6	2,5	1:9	1.3	.6					19,0	775	1.05	3,88	TRACE
APR	57.4	23,6	2.8	3,6	3.1	2.6	2.9	2.1	1.7	,3				1940	720	1.95	5,98	.09
MAY	62.6	17,1	2.0	3,8	1.7	3,1	2:4	3.2	3.5	.6	.1			20,3	713	3,80	11.01	.03
JUN	68.7	9,9	2.3	3,5	1.7	3,3	3.8	3,2	2.9	.7				21,4	690	3,50	13.09	.14
JUL	74.5	9,2		4,0	1.6	3,4	1.9	2.9	1.9	.1				10,3	682	2,24	9.52	TRACE
AUG	63.2	14,5	1.3	3,8	4.0	3,8	3.9	2,4	3.0	.1				22,3	744	2,80	6.81	TRACE
SEP	56.9	11,9	2.8	6,7	3.1	6.1	4.6	3,6	3.1	.7		,1		21,1	720	5,30	20.93	1.09
ост	67.9	12,1	1.7	3,5	2.7	2,7	3.5	3,4	2.3	.1	.1			\$0+0	744	2,07	9.22	.07
NOV	65.2	14.9	2.8	4,5	3.5	2.7	3.3	1,7	1.3					19,9	750	1,62	4,95	TRACE
DEC	61.3	16.9	3.6	6,2	2.7	4,6	1.7	1.9	.9	.1				21,8	775	1,60	6,82	.12
ANNUAL	62.3	16,1	2.6	4,7	2.5	3,6	2.9	2.5	2.0	.2	:0	.0		21,6	8735	90.39	X	X

NAVWEASERVCOM

#### **DAILY AMOUNTS**

PERCENTAGE FREQUENCY OF (FROM DAILY OBSERVATIONS)

CHASE FIELD, TEXAS

45-46, 54-77

						AM	OUNTS (II	NCHES)						PERCENT		MONT	THLY AMO	UNTS
PRECIP.	NONE	TRACE	.01	.0205	.0610	.1125	.2650	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	OF DAYS	NO.		(INCHES)	
OWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4	MEASUR-	OF OBS.	MEAN	GREATEST	LEAST
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7.12	13-24	25-36	37 - 48	49-60	61-120	OVER 120	AMTS				
JAN	99.3	.4	.1	,1										,3	744	TRACE	.6	•0
FEB	96.8	,9					.1	.1						,3	678	.4	5.0	.0
MAR	99.7	, 3													775	TRACE	TRACE	.0
APR	100.0														750	.0	.0	.0
MAY	100.0							10							744	.0	.0	.0
JUN	100.0														690	.0	.0	.0
JUL	100.0														682	.0	.0	.0
AUG	100.0														744	.0	.0	•0
SEP	100.0														750	.0	.0	.0
ост	100.0		60												775	.0	.0	.0
NOV	99.3	.7													750	TRACE	TRACE	.0
DEC	99.7	,3													775	TRACE	TRACE	.0
NNUAL	99.7	,2	.0	.0			.0	.0						,0	8857	.4	X	X

NAVWEASERVCOM

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0 5722 Doily Amounts Jan. 1969

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## **DAILY AMOUNTS**

PERCENTAGE FREQUENCY OF (FROM DAILY OBSERVATIONS) 0

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5722 Daily Amounts Jan. 1969.

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12925

CHASE FIELD, TEXAS

54-77

YEARS

						AM	OUÑTS (I	NCHES)						PERCENT		MON	THLY AMO	UNTS
PRECIP.	NONE	TRACE	.01	.0205	.06- 10	.1125	.2650	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00		TOTAL NO.		(INCHES)	
NOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4	MEASUR-	OF OBS.	MEAN	GREATEST	LEAST
SNOW-	NONE	TRACE	1	2	3	4.6	7-12	13-24	25-36	37 - 48	49-60	61-120	OVER 120	AMTS				
JAN	100.0														713			
FEB	99.5	, 2		,3										,3	650			
MAR	100.0														682			
APR	100.0														660			
MAY	100.0														713			
JUN	100.0														690			
JUL	100.0														682			
AUG	100.0														713			
SEP	100.0														690			
ост	100.0							1							754			1
NOV	100.0														720			
DEC	100.0														744			
ANNUAL	100.0	,0		.0				100						,0	8401		X	X

NAVWEASERVCOM

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5723 Extreme Values Jan 1969

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PRECIPITATION

12925

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CHASE FIELD, TEXAS

45-46, 54-77

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
45			.50		.20			,65	.82	.49	TRACE	.70	
46	. 65	.56	.49	1.06	•			10	, ,	• •			
54		-							1.40	1,63	,48	.16	
55	.20	1.40	.21	.12	,95	52	.76	2,43	1.84	.15	.47	,31	2.4
56	.21	.96	2.03	.89	1.12	.34	.24	1,10	,49	1.27	,50	2.92	2.9
57	.40	1.00	.90	1.58	3,73	4.79	TRACE	.46	3.41	1,31	1,44	,55	4.7
58	2,25	2.21	.28	.15	.60	.58	1.03	TRACE	1.05	1,31	.22	.74	2.2
59	.24	1.25	.21	.81	1.35	2.18	.95	1.05	1.34	1,93	,42	.75	2.1
60	.18	1.78	.50	.72	3.50	2,93	1.10	1,71	.71		1,27	2,35	
61	,56	1.89	,66	2.62	.03	1.54	1.33	.30		.07	,98	.21	
62	.15	.04	1.10	1,12	1.04	1,20	.20	1,45	3,46	.48	2,35	1.43	3.4
63	,33	.77	.03	,25	.08	.77	.61	1,59	1.71	,82	2,41	,30	2,4
64	1.18	.80	1.33	.06		1,17	3,59	,30	1.68	.61	.36	.64	
65	2,57	2.07	1.34	.46	1,32	1,17	,35	,62	1,43	1,31	.78	1,34	2,5
66	.71	.53	.06	3,30	2.13	,51	1.51	1,53	1,21	3,47	,04	1.29	3,3
67	1,33	.48	.03	,35	1.93	.14	1,69	1,95	9,61	3,47	,83	.11	9,6
68	.93	.78	.67	.56	3,99	1,63	.67	3,02	2.15	1,77	1,07	.11	3,9
69	,48	1,96	.86	,82	2.55	,91	1,89	3,06	1.04	,52	,98	.84	3.0
70	. 44	.80	1.02	, 33	2.32	1,40		1,44	.76	.07	.02	,24	
71	TRACE	1,33	TRACE	1.35	1.27	2,16	.02	1,77	10,40	1,95	,30	,39	10.4
72	2,15	.49	.02	1,51	6.09	4.46	2,43	,92	2,62	. 97	,53	•04	6.0
73	.34	,43	.15	1,69	.43	7,90	.61	1,20	3,02	6,18	,54	.06	6.1
75	•71	.03	.98	.36	1.77	3,13	.98	2,00	4,98	1,48	1,24	2.40	7.1
76	,61	.20	.06		.98		1.91	1.48	1,32	1,80	1,10	1.72	1.9
77	,18	.05	.30	1.19	1.14	2.52	.65	1,65	.83	.76	1.27	13	2,5
	,00	,00	, 30	10,70	1070	2,56	,,,,	12:	,,,,	112	.,.,	114	
MEAN	.73	.95	.55	,98	1.76	1,60	1,06	1,21	2,43	1,33	. 81	.61	4.0
\$. D.	.698	.659	.528	.002	1.451	1.284	.855	.761	2,570	1.302	.028	.810	2,45
TOTAL OBS.	744	678	775	720	713	690	682	744	720	744	750	775	873

NAVWEASERVCOM

PRECIPITATION

CHASE FIELD. TEXAS

45-462 54-77

24 HOUR AMOUNTS IN INCHES /BASED ON LESS THAN FULL MONTHS/

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
45				2.27		1.26	30						PRECIP
54								110					PRECIP
60										1,20			PRECIP
61									.40 28				PRECIP
64					.84 30								PRECIP
70							19						PRECIPDAYS PRECIPDAYS PRECIPDAYS PRECIPDAYS PRECIPDAYS PRECIPDAYS PRECIPDAYS
MEAN						-							
S. O.													
TOTAL OBS.													

NAVWEASERVCOM

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5723 Extreme Values Jags 1969

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SNOWFALL

12925

CHASE FIELD, TEXAS

45-46, 54-77

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	MONTHS
45			.0	.0	.0			.0	.0	.0	.0	.0	
46	.0	.0	.0	.0									
54									.0	.0	-0	.0	****
55	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	TRAC
56	.0	.0	TRACE	0	.0	.0	.0	.0	.0	.0	TRACE	.0	TRAC
58	.0	4,0	.O		.0	.0	.0	.0	.0	.0		.0	4.
59	.0	.0	TRACE	.0	.0	.0	.0	.0	:0	.0	,0	.01	TRAC
60	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	5.1
61	.1	.0	.0	.0	.0	.0	.0	,0	.0	.0	.0	.0	1
50	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	•
63	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	, 0	.0	TRACI
64	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACI
65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	•
66	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACI
67	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACI
68	TRACE	.0	.0	.0	.0	.0	00	.0	.0	.0	TRACE	.0	TRACI
69	.0	.0	.0	.0	.0	,0	.0	.0	.0	.0	.0	.0	
70	.0	.0	.0	.0	.0	.0		,0	.0	.0	.0	.0	
71	.0	.0	.0	.0	.0	.0	.0	.0	.0	,0	.0	.0	•
72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	• (
73	.6	TRACE	.0	.0	.0	.0	.0	.0	,0	.0	,0	.0	•
74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	• (
75	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	TRACE
77	•0	.0	•0	.0	• 0	• 0	•0	.0	.0	,0	.0	•0	•
MEAN	.03	,38	TRACE	.00	.00	.00	.00	,00	00	.00	TRACE	TRACE	.40
S. D.	.123	1,279	.000	.000	.000	.000	.000	.000	,000	.000	.000	.000	1,32
OTAL OBS.	744	678	775	750	744	690	682	744	750	775	750	775	885

NAVWEASERVCOM

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5723 Extreme Values Jan 1969

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523 Extreme Values Jan 1969

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SNOWFALL

12925

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CHASE FIELD, TEXAS

45-461 54-77

YEARS

24 HOUR AMOUNTS IN INCHES /BASED ON LESS THAN FULL MONTHS/

70				25	.0	30			SNOFALL DAYS SNOFALL DAYS SNOFALL DAYS
70						30			SNOFALL
					19				SNOFALL
				245)					
		4	La Carlo						
									-
									1983
MEAN								- 10	
S. D. TOTAL OBS.									

NAVWEASERVCOM

SNOW DEPTH

CHASE FIELD, TEXAS

DAILY SNOW DEPTH IN INCHES

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	MONTHS
45													
46									_	0			
54							-		0	0	0	0	
50	0	0	_	0	0	0	0	0	0	0	0	0	
57	. 0	0	0	0	0	0	0	0	0	0	0	0	
56	0	2	0	0	0	0	0	0	0	0	0	0	
50	0	0	0	0	0	0		0	0	0	0	0	
60	0	2	0	0	0	0	0	0	0	0	0	0	
61	0	0	0	0	0	0	0	0	-	0	0	0	
62	0	0	0	0	0	0	0	0	0	0	0	0	
63	0	ő	Ö		0	0	- 0	- 0	0	0		Ö	
64	0	0	0	0	0	0	O	0	o	0	0	o	
65	- 0	0	0	0	0	0	0	0	0	0	0	0	
66	0	0	o	0	0	o	o	0	0	0	o	o	(
67	0	0	0	0	0	0	0	0	0	0	0	0	
68	0	0	0	0	0	0	0	0	0	0	0	0	(
69	0	0	0	0	0	0	0	0	0	0	0	0	
70	0	0	0	0	0	0		0	0	0	0	0	
71	0	0	0	0	- 0	0	-	0	0	U	0	0	-
72	0	0	0	0	0	0	0	0	O	0	0	0	(
73	0	0	0	0	0	0	- 0	- 0	0	0	0	0	
74	0	0	0	0	0	0	0	0	0	0	0	0	(
75	0	0	0	- 0	0	0	- 0	0	0	0	0	0	
76	0	0	0	0	0	0	0	0	o	0	0	0	
77	•	•	•	•	•	0	-0	•	•		-	0	
MEAN	•0	. 2	•0	:0	••	•0	•0	.0	.0	.0	•0	•0	
\$. D.	-000	.570	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.63
TOTAL OBS.	713	650	682	660	713		682	713	690	744	720	744	840

NAVWEASERVCOM

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5723 Extreme Values Jan 1969

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SNOW DEPTH

12925

CHASE FIELD, TEXAS

54-77

YEARS

DAILY SNOW DEPTH IN INCHES /BASED ON LESS THAN FULL MONTHS/

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
45			0	0	0	0	0	0	0	0	0	0	SNU DPTH DAYS
46	0	0.	0	0									SNU DPTH
54								30					SNO DPTH
55			30										SNO DPTH
61									29				SNO DPTH
63				290									SNO DPTH
70							190						SNO DPTH
MEAN													
S. D.													
TOTAL OBS.								A TOTAL STREET					

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5723 Extreme Values Jan 1969

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## **DAILY EXTREME AMOUNTS**

12925

CHASE FIELD, TX.

1946-1946 1955-1977 YEARS

STATION

JANUARY

FEBRUARY

		CIPITATIO GREATEST	N		OWFALL	
DAY	INCHES	MM	DATE	INCHES	ММ	DATE
1	0.11	3	1958			
2	0.29	7	1977*			
3	0.13	3	1968			
4	0.88	22	1958			
5	2.25	57	1958			
6	0.24	6	1959			
7	0.22	6	1961			
8	0,93	24	1968	•	T	1968
9	1.33	34	1967	1	1	1967
10	0.23	6	1946			
11	0.49	12	1961	0.6	15	1973
12	1,11	28	1958			
13	0.65	17	1967			
14	0.33	8	1946			
15	1.18	30	1964			
16	0.48	12	1969			
17	0.33	8	1963			
18	0.80	20	1968			
19	0.20	5	1968			
20	0.44	11	1968			
21	2.57	65	1965			
22	0.64	16	1977			
23	1,67	42	1958			
24	0,45	11	1974			
25	0.71	18	1974	0.1	3	1961
26	0,15	4	1962			
27	0.07	2	1957			
28	0,10	3	1946		1	1961
29	0.07	Z	1972*		THE LEW	
30	2,15	55	1972			
31	0.07	2	1972			
Monthly	2,57	65	1965	0.6	15	1973

		CIPITATIO	ON	Sr	NOWFALL	
DAY		GREATEST		G	REATEST	
	INCHES	ММ	DATE	INCHES	MM	DATE
1	1.25	32	1959			
2	0,96	24	1956			
3	1.78	45	1960			
4	1.62	41	1965			
5	1.89	48	1961			
6	0,48	12	1967	T	T	1967
7	0.12	3	1956			
8	0.15	4	1956	7	T	1973
9	0.50	13	1966		1	1973
10	0,85	22	1977			
11	1.06	27	1959			
12	0.80	20	1960	5.0	127	1960
13	1.62	41	1969			
14	1.96	50	1969			
15	0.32	8	1966			
16	2.07	53	1965			
17	0.62	16	1968			
18	0.77	20	1963			
19	0.30	8	1968			
20	0.88	22	1958			
21	1.81	46	1958	T	T	1964
22	2.21	56	1958			
23	1.18	30	1960	1	T	1966
24	0.70	18	1964			
25	1.33	34	1971			
26	0.66	17	1959			
27	0.17	4	1967			
28	0.03	1	1972			
29	0.49	12	1972			
30						
31						
Monthly	2.21	36	1958	5.0	127	1960

T — TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

5724 DALY AMOUNTS MAR 1978 3978

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## **DAILY EXTREME AMOUNTS**

12925

CHASE FIELD. TX.

STATION NAME

1945-1946 1955-1977

MARCH

A	PRIL
	MONTH
PRECIPITATION GREATEST	

			МО	NTH		
DAY		CIPITATIO GREATEST	ON		NOWFALL REATEST	
DAY	INCHES	MM	DATE	INCHES	ММ	DATE
1	0.20	5	1964			
2	0.15	4	1964			
3	0.30	8	1977			
4	0.23	6	1968			
5	0.67	17	1968			
6	0.60	15	1970			
7	0.21	5	1955			
8	0.02	1	1976			
9	0.04	1	1975			
10	1.02	26	1970			
11	0.60	15	1957			
12	0.98	25	1974			
13	0.50	13	1945			
14	1.10	28	1962			
15	0,86	22	1969			
16	0.06	2	1957	T	T	1959
17	0.66	17	1961			
18	0.03	1	1958			
19	1.33	34	1964			
20	0.51	13	1957			
21	2.03	52	1956			
22	0.08	2	1969		7	
23	0.28	7	1958			
24	0.28	7	1977			
25	0.42	11	1960			
26	0.43	11	1974			
27	0.12	3	1977			
28	0,90	23	1957	-		
29	0.06	2	1965			
30	1.34	34	1965			
31	0.30	8	1957	7	T	1957
Monthly	2.03	52	1956	1	Ť	1949

			МО	NTH			
DAY		CIPITATIO	ON		NOWFALI GREATEST		
DAY 1	INCHES	ММ	DATE	INCHES	MM	DATE	
1	0.51	13	1945				
2	0.03	1	1977				
3	0.03	1	1960				
4	0.51	13	1976				
5	2.62	67	1961				
6	1.69	43	1973				
7	0.26	7	1976				
8	0.81	21	1959				
9	0.89	23	1956				
10	0.13	3	1968				
11	0.39	10	1959				
12	0.82	21	1969				
13	0.41	10	1977				
14	0,46	12	1974				
15	1.33	34	1957				
16	1.35	34	1971				
17	0.83	21	1966				
18	1.17	30	1976				
19	0.30	8	1965				
20	2.27	58	1945				
21	1.62	41	1900				
22	1.06	27	1946				
23	1,12	28	1962				
24	0.34	9	1976				
25	3,30	84	1966				
26	0.45	11	1965				
27	1.51	38	1972				
28	1.58	40	1957				
29	1.19	30	1976				
30	1.70	43	1977				
31							
Monthly	3.30	84	1900				

\* ALSO ON EARLIER YEARS
T – TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

\$24 DAILY AMOUNTS MAR \$378

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## **DAILY EXTREME AMOUNTS**

12925 STATION CHASE FIELD, TX.

1945-1946

1955-1977

YEARS

MAY

JUNE

D W		CIPITATIO	ON	SNOWFALL GREATEST					
DAY	INCHES	мм	DATE	INCHES	ММ	DATE			
1	1.01	26	1966						
2	1,12	28	1956						
3	0.83	21	1960						
4	1.86	47	1966						
5	2.13	54	1966						
6	1.67	42	1972						
7	0.90	23	1968						
8	0.60	15	1968						
9	1.94	49	1957						
10	6,09	155	1972						
11	3,99	101	1968						
12	2.42	61	1972						
13	0.94	24	1957						
14	1,93	49	1967						
15	2,55	65	1969						
16	1.18	30	1965						
17	0,25	6	1965						
18	1.27	32	1957						
19	0.71	18	1965	SERETTO!					
20	1.27	32	1967						
21	0.86	22	1959						
22	0.20	5	1970						
23	3,50	89	1960						
24	1.27	32	1971						
25	0.09	2	1970						
26	0,66	17	1976		-				
27	3,73	95	1957						
28	1,72	44	1970			71-1			
29	1,45	37	1957		and the same				
30	1.77	45	1974						
31	2,32	59	1970	17 3					
lonthly	6.09	155	1972						

			МО	NTH		
DAY		CIPITATIO GREATEST			NOWFALI GREATEST	
DAY	INCHES	ММ	DATE	INCHES	ММ	DATE
_1	4,79	122	1957			
2	1,20	30	1962			
3	0.91	23	1969			
4	0.83	21	1972			
_5	1.57	40	1973			
_6	0.79	20	1959			
7	T	•	1974			
8	0.14	4	1972			
9	0.43	11	1961			
10	3.13	80	1974			
11	1.02	26	1961			
12	2.13	54	1973			
13	1,87	47	1973			
14	1.97	50	1974			
15	2.52	64	1977			
16	0.27	7	1972			
17	0.77	20	1963			
18	1.54	39	1961			
19	0.94	24	1965			
20	0.68	17	1968			
21	2.16	55	1971			
22	1.40	36	1970			
23	1.07	27	1977			
24	2.17	55	1960			
25	4,46	113	1973			
26	0.73	19	1405			
27	1.20	30	1975			
28	0.96	24	1975			
29	0.26	7	1975			
30	2.19	36	1975			
31		1				
Monthly	4.79	122	1957			

<sup>\*</sup> ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

5724 DAILY AMOUNTEMAR 1978

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## **DAILY EXTREME AMOUNTS**

12925 STATION CHASE FIELD, TX.

1945-1946 1955-1977

YEARS

JULY

MONTH

A	UGUST	
	MONTH	_

DAY		GREATEST	ON		NOWFALL REATEST	
DAI	INCHES	MM	DATE	INCHES	ММ	DATE
1	0,67	17	1968			
2	2.16	55	1964			
3	0.51	5	1976			
4	0.61	15	1973			
5	1,85	47	1976			
6	1.75	44	1976			
7	1,03	26	1958			
8	0.78	20	1976			
9	0,60	15	1976#			
10	1.91	49	1976			
11	0,56	14	1961			
12	0,88	22	1967			
13	1,69	43	1967			
14	0.91	23	1976			
15	0.84	21	1975			
16	2,43	62	1972			
17	1,89	48	1969			
18	1,10	28	1960			
19	3,59	91	1964			
20	0.74	19	1976			
21	1,17	30	1972			
22	0.07	Z	1967			
23	0.17	4	1945			1-
24	0,35	9	1965			
25	0.14	4	1961			
26	0.24	6	1956			
27	0,10	3	1968			
28	0.76	19	1955			1
29	0,95	24	1959			
30	0,98	25	1974			
31	1,71	43	1945			
Monthly	3.59	91	1964			

DIRNAVOCEANMET-SMOS

			МО	NTH		
DAY		ECIPITATIO GREATEST	ON		NOWFALI GREATEST	
DAY	INCHES	ММ	DATE	INCHES	ММ	DATE
1	0.07	2	1955			
2	1,99	51	1971			
3	1.44	37	1970			
4	0.49	12	1975			
5	1.64	42	1971			
6	1.22	31	1974			
7	2.06	52	1974			
8	1.24	31	1960			
9	0.09	2	1969			
10	1.20	30	1973			
11	1.71	43	1900			
12	0.52	13	1973			
13	0.17	4	1960			
14	0.55	14	1955			
15	1.45	37	1962			
16	0.07	2	1968		4	
17	1.37	35	1967			
18	2,43	62	1955			
19	1.95	50	1967	1		
20	3.02	77	1969			
21	1.03	26	1959			
22	0.23	6	1959			
23	0.82	51	1970			
24	0.66	17	1424			
25	1.05	27	1959			
26	1.16	29	1956			
27	1.00	25	1973			
28	1.11	28	1400			
29	0.76	19	1974			
30	0.40	10	1973			
31	1.68	43	1976			
Monthly	3.02	77	1494			

<sup>\*</sup> ALSO ON EARLIER YEARS

5724 DAILY AMOUNTS MAR 1978

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T - TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

## **DAILY EXTREME AMOUNTS**

12925 STATION CHASE FIELD, TX.

1945-1946 1954-1977 YEARS

SEPTEMBER

			МО	NTH			
		CIPITATIO	ON		NOWFALL REATEST		
DAY	INCHES	ММ	DATE	INCHES	ММ	DATE	
1	0.47	12	1970				
2	0.30	8	1967				
3	0.34	9	1967				
4	1.59	40	1962				
5	0.98	25	1968				
6	1,84	47	1955				
7	0.76	19	1977				
8	1,34	34	1959				
9	3,46	88	1962			1	
10	7.10	180	1971				
11	10.40	264	1971				
12	1,56	40	1971				
13	4.98	126	1974				
14	1.38	35	1963				
15	0.67	17	1958				
16	1.68	43	1964				
17	2.15	55	1968				
18	1.26	32	1971				
19	0,86	22	1975				
20	7.12	181	1907				
21	9.61	244	1967				
22	3.41	87	1957				
23	1.34	34	1957				
24	1,96	50	1972				
25	0.52	13	1974				
26	2.82	72	1972				
27	1.65	42	1973				
28	0.10	3	1954				
29	0.82	21	1945		-		
30	1,40	36	1954				
31							
Monthly	10.40	264	1971				

OCTOBER MONTH

DAY		CIPITATIO	ON	S	NOWFALL REATEST		
DAY	INCHES	ММ	DATE	INCHES	ММ	DATE	
1	1.00	25	1958				
2	0.43	11	1977				
3	0.40	10	1965				
4	1.93	49	1959				
5	0.95	24	1976				
6	0.49	12	1954				
7	1.77	45	1968				
8	0.91	23	1968	1			
9	0.94	24	1968				
10	0.18	5	1945				
11	6,18	157	1973				
12	0.94	24	1973				
13	1.58	40	1959				
14	1.31	33	1957				
15	3.47	9.0	1967				
16	1,95	50	1971				
17	0.91	23	1965				
18	1,31	33	1905				
19	0.99	25	1960				
20	0,58	15	1956				
21	0,20	5	1974				
22	1.25	32	1954				
23	1.63	41	1954				
24	1,15	29	1960				
25	0.77	20	1975				
26	0,60	15	1960				
27	0,98	25	1973				
28	1,38	35	1976				
29	1.02	26	1958				
30	0,34	9	1973				
31	0.09	2	1974				
Monthly	6,18	137	1973				

\* ALSO ON EARLIER YEARS
T – TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

5724 DALY AMOUNTS MAR 1978 ....

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## **DAILY EXTREME AMOUNTS**

12925 STATION CHASE FIELD, TX.

STATION NAME

1945-1946 1954-1977

NOVEMBER

			МО	NTH		
		ECIPITATIO GREATEST	)N		OWFALL REATEST	
DAY	INCHES	MM	DATE	INCHES	ММ	DATE
1	1.27	32	1977			
2	1,10	28	1975			
3	0.78	20	1965			
4	0.78	20	1965			
5	0.54	14	1961			
6	0.03	1	1951			
7	0.83	21	1967			
8	0,58	15	1977			
9	2.41	61	1963			19684
10	1,44	37	1957			
11	1.02	26	1957			
12	0.48	12	1961			
13	0.98	25	1961			
14	0.09	2	1961			
15	0.08	2	1961			
16	0.11	3	1976			
17	0.35	9	1960			
18	0.41	10	1976			
19	0.76	19	1976			
20	1.27	32	1950			
21	0.71	18	1957			
22	0.69	18	1960			
23	0.96	24	1957	T	1	1957
24	1.24	31	1974			
25	0.38	10	1976			
26	0.98	25	1969			
27	2,35	60	1962			
28	0.46	12	1976	T	T	1976
29	0,15	4	1969	7	1	1976
30	1.07	27	1968			
31						
Monthly	2,41	61	1903	T		1976*

DIRNAVOCEANMET-SMOS

DECEMBER MONTH

		ECIPITATIO GREATEST	ON		NOWFAL GREATES		
DAY	INCHES	мм	DATE	INCHES	MM	DATE	
1	0.31	8	1955			1	
2	1.43	36	1962				
3	0.58	15	1965				
4	0.11	3	1969				
5	0.84	21	1969				
6	0.21	5	1971				
7	1.08	27	1960				
8	0.62	16	1964				
9	0.64	16	1964				
10	0.46	12	1964				
11	0.15	4	1976				
12	0.76	19	1976				
13	0.95	24	1960	1	T	1960	
14	0.95	24	1965				
15	0.75	19	1959				
16	1.29	33	1966				
17	0.23	6	1956				
18	2.92	74	1956	T	T	1964	
19	1,72	44	1976				
20	0,36	9	1965				
21	0.22	6	1956				
22	0.03	1	1958*				
23	0.71	18	1962				
24	2,40	91	1975				
25	0.48	12	1958				
26	0.03	1	1954				
27	. 0.19	5	1960				
28	2,35	60	1960				
29	0.25	6	1464				
30	0,99	25	1960				
31	0.74	19	1959				
Monthly	2.92	74	1936		1	1964	

<sup>\*</sup> ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

24 DAILY AMOUNTS MAR 3978

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1888

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NWSD, Federal Building Asheville, N. C.

#### PART C

#### SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from 3-hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:
  - (1) Annual all hours combined
  - (2) By month all hours combined
  - (3) By month by standard 3-hour groups
- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

5723 Extreme Values Jag 1969

0

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SURFACE WINDS

CHASE FIELD, TEXAS

45-46, 54-77

#### DAILY PEAK GUSTS IN KNUTS

MONTH	JAN	4.	FEI	<b>s</b> .	MA	R.	AP	R.	MAY	JU	N	UL.	AU	G.	SEP.	0	CT.	но	v.	DEC.	MONTH	s
45					NNE	41		495W	63	SSE	45ESE	42	N	400	1	39N	40	N	49			
46			MNN	40	22E	38	INE	40		-								-				
54																						
55	A.A.E											20				-	-	-	N	32		
56	NNE	33	SSE	46			-	39NN	W 40		47		SE	210	INE	22		N	35NN	E 35		
58	NNE	34			3	44	4145	SAMI	W 49	14	4/		) E	34		99	-	<u></u>	DINI	2 33		
59	MAG	34		30	SSE	40	V	3955	E 34	NNE	47ESE	33	N	391	w	36SE	31	SW	4055	E 41		
60	SSE	31	NW		SSE		SSE	40NN		ESE	395E	-	SSE	300		36ENE	_	NNE	3455		NNW	6
61	N		NNW		WNW	39	0.00	405		NNW	36558		Charles and Control of the Control o	435		595SE			46NN		NNE	5
62	NNE		SSE	37	NNE	40	SSW	3855	E 42	SE	38556		ESE	441	IE	42NNE	32	SSW	34NE	32	SE	5
63	NNE	39	NNE	40	N	35	SSE	34ES			36551	29	SSE	220	16	255	22	N	SON	30	NNE	4
64	N	30	MNM	35	MNM	42	SSE	3556		SE	27E		SSE	255		SANNE	20	N	30N	38	MNM	4
65	N	31	N	36	NNE	29	MAN	4555	E 35	ESE	365	27	SE	333		ZBNW	29	SSW	27N	30	WNW	4
66	5	33	SSE	29	NNE	34		44NW	35	SSW	27556		SSW	391		27N	29	N	35N	29	N	4
67	SSW	28	NW	37	NW	33	5	30NN		SSE	26N		NNE	200		4155W	42	WNM	ZENN	29	SSW	4
68	N	28	NW	32	MUM	35	SE	33N	44	ESE	31 656	29	SSE	34		39ENE		SE	32N	32	N	4
69	N	32	ESE	28			SE	26WN		N	31 NE	34	ESE	251	MNI	2355E			33WN	H 44	MNM	4
70	N		MUM	33			MNN	40NN			33		ENE	598		24N	30	The same of the same of	31N	26		
71	N	33	29	42		33		3612		14	3109	33		300	_	4615		18	2917	35	01	4
72					01	31	3-36	3307		15	2401	30		293		3114	33	33	3736	35		
73	28	38			32	33		3502		16	3714	27		373		36		-	17	42		_
74	34	30		40		35	200	3529		36	3213	35		253	1	2836		01	3716	28	29	4
75	34	34		38		40		3433		12	5108	29		263		3015		16	3428	38	12	5
76	34	39	March Control	35		35		4830		07	3112	35		543		3004	-	30	3136	37	17	5
	35	32	16	37	37	43	.,	3519	,,,	17	5213	26	.,	310	-	3736	34	3,	3218	32	1,	5
MEAN		3.9		0.6		3.2		7.6	39.8			11.4		0.0	34		1.0	-		34,2		8,
5. D.	4.1					-	5.5				508 5				5.4			5,7		. 633	8,	
OTAL OBS.		89		336		77		59	650		956	613	(	80	6	28	588	3	99	645	7	49

NAVWEASERVCOM

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5723 Extreme Values Jan 1969

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SURFACE WINDS

12925

19/44/

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CHASE FIELD TEXAS

45-461 54-77

YEARS

BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH!

MONTH	JA	N.	,	ED.	MAR.	API	R.	MAY	JUN.		JUL.	AUG.	SEP.	oc	т.	NOV.	DE		MONTHS
45																	NNE	36	WINDS
46	SE	22																	WINDS
54													0		0	0	N	34	WINDS
55		0		0	0		0	0			0	0	0		0		•		WINDS
56					NE 50		0	0		0		SSE 24	0		0	0		0	WINDS
57		0	E	18						S	12			NNE					WINDS
58				0	0			23	E 2	0	0	0	0		0	0		0	WINDS
59	2	39																	WINDS
70										SE	19								WINDS
72	36	31		0															WINDS
73			05	24										13	291	15			WINDS
										+				-	1				
																The State			
MEAN		- Victoria																	
S. D.																			
OTAL OBS.																			

NAVWEASERVCOM

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

8888

5702

SURFACE WINDS

JAN 78

9888

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

CLASS

OO

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.9	5.2	7.7	4.5	1.9							21.3	8.6
NNE		.6	.6	3.2								4.5	11.9
NE	1.3	6.5	1.9									9.7	5.
ENE	1.9	1.3	1.3	.6								5.2	5.9
E	3.2	.6	.6									4.5	3.4
ESE	.6	1.3										1.9	4.0
SE	.6	1.3	1.3									3.2	6.0
SSE	1.3	1.9	2.6	3.2								9.0	8.1
5	2.6	4.5	1.3	1.3								9.7	5.8
ssw	.6	• 6	.6									1.9	4.7
sw													
wsw													
w	1.9											1.9	1.7
WNW	.6			.6								1.3	6.5
NW	3,2	1.3	1.9									6.5	4.7
NNW	1.3	1.3	1.3	.6		.6						5.2	8,5
VARBL													
CALM	><	><	> <	><	><	> <	><	><	> <	$\sim$	> <	14.2	
	21.3	26.5	21.3	14.2	1.9	.6						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

155

1888

DIRNAVOCEANMET SMOS

0

#### SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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5702

WINDS

JAN

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1010

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12925	CHASE FIELD, TE	EXAS	73-77		JAN
STATION	ST	TATION HAME		YEARS	MONTH
		ALL	WEATHER		03
			CLASS		HOURS (L.S.T.)
		100000000000000000000000000000000000000	CONDITION		

MEAN WIND SPEED SPEED (KNTS) 1 - 3 4 - 6 7 - 10 11 - 16 17 - 21 28 - 33 34 - 40 % 22 - 27 41 - 47 48 - 55 ≥56 1.9 2.6 1.3 1.3 23.2 9.4 5.2 9.7 N 5.8 .6 1.9 NNE 2.6 7.2 2.6 6.5 1.9 6.3 NE .6 ENE 1.9 3.2 3.6 4.8 1.9 3.9 .6 E 2.5 5.0 1,3 1.3 ESE .6 SE 1.9 . 6 . 6 3.2 8.4 SSE 8.2 1.3 5.2 .6 1.9 5 1.3 5.8 9.9 .6 3.2 3.8 SSW . 6 . 0 1.9 6.7 1.3 wsw .0 5.4 2.3 5.3 5.9 3.2 1.9 6.5 2.6 .6 WNW 3.2 .6 NW 1.3 7.1 .6 NNW 11.0 19.4 100.0 6.3

TOTAL NUMBER OF OBSERVATIONS

155

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

COMPLTION

12925 CHASE FIELD, TEXAS 73=77

STATION STATION NAME

ALL WEATHER

O6

CLASS

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	2.6	5.8	7.1	5.2	2.6							23.2	9.0
NNE	1.3	3.2	.6	1.3								6.5	6.6
NE	1.9	2.6	1.9	.6								7.1	6.2
ENE	1.3											1.3	2.5
E	.6	1.3										1.9	5.0
ESE		.6										.6	4.0
SE	.6	.6	.6	.6								2.6	7.0
SSE	.6	1.3	3.9	1.3								7.1	8.0
5	.6	1.3	.0	1.3								3.9	7.0
ssw	.6	.6										1.3	3.0
sw		. 6	.6									1.3	6.0
wsw													
w	.6	1.3	.6									2.6	4.5
WNW	.6	1.3	1.3	.6								3.9	7.3
NW	2.6	3.9	.6	.6								7.7	4.4
NNW	4.5	5.2	3.2	1.9								14.8	5.9
VARBL													
CALM	$\times$	><	><	><	$>\!\!<$	> <	> <	> <	$\sim$	$\sim$	>	14.2	
	18.7	29.7	21.3	13.5	2.6							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

155

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5702

SURFACE WINDS

JAN 78

## SURFACE WINDS

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5702

SURFACE WINDS JAN

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1.2925 CHASE FIELD, TEXAS 73=77

STATION

ALL WEATHER

O9

CLASS

ROURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	2.6	3.9	9.0	10.3	•6	.6						27.1	9.7
NNE	.6	6.5	3.2	1.9								12.3	7.3
NE	1.9	2.6	1.9	.6								7.1	6.2
ENE	2.6	.6		1.3								4.5	5.7
E	.6											.6	2.0
ESE	.1.3	.6										1.9	3.0
SE	.6	1.3	2.6									4.5	6.9
SSE		1.9	1.9	1.3	•6							5.8	9.6
5		3.9	1.3	1.3								6.5	7.1
SSW		.0	.6									1.3	6.0
sw	1,3											1.3	3.0
wsw	1.9	1.3										3.2	3.2
w	1.9	1.9	.6			.6						5.2	6,4
WNW	1.9	.6	1.3									3.9	5.7
NW		. 6	.6	.6								1.9	9.7
NNW	1.3	1.9	1.9	1.9	•6							7.7	8.5
VARBL													
CALM												5,2	

TOTAL NUMBER OF OBSERVATIONS

100.0

7.2

155

0

DIRNAVOCEANMET SMOS

10.7 28.4 25.2 19.4

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

CLASS

HOURS (L.S.T.)

	14.8	18.7	29.0	29.7	4.5	.6	.6					100.0	8.
CALM	$>\!\!<$	$>\!\!<$	$>\!<$	$>\!<$	$>\!\!<$	><	$>\!\!<$	$>\!<$	><	><	$>\!\!<$	1.9	
VARBL													
NNW	.6	1.9	1.3	3.2	• 6							7.7	10.
NW	.6		1.3	.6	1.3							3.9	11.
WNW	2.6		.6	1.3								4.5	6.
w	1.3		.0			.6						2.6	8,
wsw	1.3	• 6	.6									2.6	4,
sw			1.3									1.3	9
ssw	1.9	1.9	1.3	.6								5.8	5
5	1.9	1.3	5.2	7.1								15.5	10
SSE	.6	1.3	1.9	4.5	1.3							9.7	11
SE		.6	.6									1.3	7
ESE	1.3	1.3	-									2.6	3
E	.6		1.3									1.9	7
ENE		1.3	1.3	.6								3.2	8
NE		1.9	1.9	1.9								5.8	8
NNE		2.6	1.9	2.6								7.1	8
N	1.9	3.9	7.7	7.1	1.3		.6					22.6	10
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WINI SPEE

TOTAL NUMBER OF OBSERVATIONS

155

8480

5702

SURFACE WINDS

JAN

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DIRNAVOCEANMET SMOS

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#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77
STATION STATION NAME

ALL WEATHER
CLASS

CLASS

CLASS

AND STATION NAME

ALL WEATHER

DESCRIPTION NAME

ALL WEATHER

OURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		2.6	7.7	3.9	1.3					7-0		15.5	10.2
NNE	1.3	2.6	3.9	3.9								11.6	8.8
NE		. 6	.6	.6								1.9	8.0
ENE	.6	•6		.6								1.9	7.0
E		1.9	1.3									3.2	6.6
ESE		2.0	.6	.6								3.9	7.0
SE		. 6	1.9	3.2	1.9							7.7	12.6
SSE		1.3	3.9	3.2	1.3	.6						10.3	11.9
\$	.6	3.2	1.9	2.6								8.4	8.3
SSW		5.0	1.9									7.7	5.4
sw		2.0		.6								3.2	6.2
wsw		1.9				.6						2.6	9.0
w	.6	1.3	1.3									3.2	5.8
WNW		1.3		1.9								3.2	9.6
NW	.6		1.3	1.3		1.3						4.5	13.7
NNW	1.9	2.6	1.3	3.2		.6						9.7	8.5
VARBL	100												
CALM	$\times$	><	> <	$\times$	> <	> <	> <	> <	> <	$\sim$	> <	1.3	
	5,8	31.6	27.7	25.8	4.5	3.2						100.0	9.1

TOTAL NUMBER OF OBSERVATIONS

155

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5702

SURFACE WINDS JAN

78

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#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

CLASS

TOTAL

YEARS

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.6	5.8	5.2	5.8	•6	.6						18.7	10.0
NNE		3.9	4.5	1.9								10.3	7.9
NE		1.3	.6								-	1.9	6.7
ENE		1.3	.6	.6								2.6	8.5
	2.6	1.3	3.2									7.1	5.2
ESE	.6	1.9	2.6									5.2	7.0
SE		5.8	6.5	5.8								18.1	8,9
SSE	.6	1.9	3.2	2.6								8.4	8,8
\$	1.9	3.9	1.3									7.1	4.6
SSW													
sw	1.9											1.9	2.0
wsw			• 0									.6	8.0
w	1.3	1.3										2.6	3,8
WNW	1.3	.6										1.9	3,3
NW		1.9	1.3	.6								3.9	7.2
NNW		.6		2.6	•6							3.9	12.0
VARBL													
CALM	><	><	$>\!\!<$	><	><	><	><	><	><	><	> <	5.8	
	11.0	31.6	29.7	20.0	1.3	.6						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

155

5702 SURFACE WINDS JAN 78

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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5702 SURFACE WINDS JAN

78

12925	CHASE FIELD, TEXAS	73-77		JAN
STATION	STATION NAME		YEARS	MONTH
		ALL WEATHER		21
	-	CLASS		HOURE (L.S.T.)
		CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.6	7.1	5.8	5.2	1.3							20.0	9.
NNE	.6	2.6	3.2	.6								7.1	7.
NE	.6	3.9	•6	.6								5.8	5.
ENE	.6	.6	1.9									3.2	7.0
E	1.3	5.8	.6	.6								8.4	5.0
ESE	3.9	3.2	2.6									9.7	5.0
SE	3.2	5.0	4.5	.6								14.2	5,
SSE	3.9	3.9	3.9	1.3								12.9	6.
5		1.3		1.3								2.6	7.1
ssw			.6									.6	8.0
sw													
wsw	.6											.6	2.
W		.6										.6	6.
WNW	1.3	. 6										1.9	3.
NW	.6	. 0		.6	.6							2.6	10.
NNW		2.6		1.9								4.5	8.
VARBL													
CALM	><	$>\!<$	$\times$	$>\!\!<$	$>\!<$	$>\!\!<$	><	><	><	><	><	5.2	
	17.4	38.7	23.9	12.9	1.9							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

155

1461

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

CLASS

T3-77

YEARS

HOUTE
HOURE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.5	4.9	7.0	6.5	1.3	•2	•1					21.5	9.5
NNE	. 8	3.2	2.5	2.3								8.8	8.0
NE	.9	2.7	1.5	.6								5.7	6.4
ENE	1.0	1.0	. 6	.5								3.1	6.2
E	1.3	1.6	.9	.2								4.0	5.1
ESE	1.1	1.5	.7	.1								3,4	5.2
SE	.7	2.1	2.3	1.3	•2							6.7	7.9
SSE	1.0	1.9	3.3	2.3	.4	.1						9.0	9.0
5	1.0	2.5	1.6	2.3								7.4	7.9
ssw	.6	1.3	.7	.1								2.7	5.1
sw	.4	.4	•2	•1								1.1	5.2
wsw	.5	. 6	• 3			•1				•		1.5	5.4
w	1.0	1.1	.5			.2				í		2.7	5.4
WNW	1.3	• 6	.4	.6								2.8	6.1
NW	1.2	1.5	1.0	.6	• 2	• 2						4.7	7.4
NNW	1.4	2.5	1.3	2.0	•2	.2						7.6	8.0
VARBL													
CALM	$\sim$	><	><	><	><	><	$\times$	><	> <	$\sim$	> <	7.3	
	15.8	29.3	24.9	19.4	2.4	.8	•1					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

1240

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SURFACE WINDS JAN

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DIRNAVOCEANMET SMOS

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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	E FIELD	STATIO	-			73-7			YEARS				EB
					ALL WE	ATHER							00
	_					LASS							(L.S.T.)
	-				con	IDITION				_			
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		1.4	5.0	2.1								8.5	8.
NNE		7.1	3.5	.7								11.3	7.
NE	.7		1.4									2.1	6.
ENE	.7	7.1										7.8	4.
ŧ	2.1	2.8		.7								5.7	4.
ESE	2.1	1.4	1.4									5.0	4.
SE	.7	1.4	5.0	2.1								9.2	8.
SSE	4.3	3.5	1.4	5.7								14.9	7,
5	.7	2.1	1.4	.7	1.4							6.4	9.
SSW	2.1		.7									2.8	3,
sw	.7											.7	3.
wsw	,7	.7										1.4	4.
w	.7	.7										1.4	4.
WNW	.7											.7	2.
MW	1 4											1.4	2

TOTAL NUMBER OF OBSERVATIONS

141

5.7

15.6

100.0

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DIRNAVOCEANMET SMOS

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#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

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12925	CHASE FIELD.	TEXAS	73-77		FEB
STATION		SMAN HOITATE		YEARS	МОНТИ
			ALL WEATHER		03
			CLASS		HOURS (L.S.T.)

NDITION

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.4	2.8	5.7	2.1	.7							12.8	8.4
NNE	1.4	2.5	4.3	1.4								9.9	7.0
NE	.7	3.5	1.4									5.7	5.6
ENE	2.8	2.1	• 7									5.7	4.1
E	.7	.7										1.4	3.0
ESE	1.4	1.4										2.8	3,5
SE	2.1	.7	2.1									5.0	5.0
SSE	1.4	3.5	5.0	8.5	.7							13.5	8.8
5	3,5	.7	1.4	1.4								7.1	6.1
SSW	1,4	.7										2.1	2.7
sw	.7											.7	2.0
wsw		1.4		.7								2.1	7.7
w		1.4		.7								2.1	7.0
WNW	2.8											2.6	2.0
NW	4.3	4.3	.7	.7	.7							10.6	5.5
NNW	1.4			1.4								2.8	7.3
VARBL													
CALM	><	><	><	$\times$	><	><	><	><	><	><	> <	12.8	
	26.2	26.2	21.3	11.3	2.1							100.0	5,6

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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5702 SURFACE WINDS JAN 78

12925	CHASE FIELD, TEXAS	73-77	FEB
STATION	STATION HAME		YEARS MONTH
		ALL WEATHER	06
		CLASS	HOURS (L.S.T.)
		CONDITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	×	MEAN WIND SPEED
N	1.4	7.1	7.1	5.0	2.1							22.7	8.9
NNE	2.1	2.1	2.8									7.1	5,4
NE	.7		2.8	.7								4.3	7.5
ENE	2.1	2.8	• 7									5.7	4.4
E	.7	2.1										2.8	4.0
ESE	2.8	2.1										5.0	3.1
SE	1.4	1.4	.7									3.5	4.0
SSE	.7	2.1	2.8	1.4	• 7							7.8	8.5
\$	2.8	• 7	1.4	1.4								6.4	6.0
SSW	2.1											2.1	2.3
sw		1.4										1.4	5.0
wsw	2.1	.7										2.8	3,3
w	1.4	.7	1.4									3.5	4.6
WNW	1.4	.7										2.1	3.0
NW	2.8	8.5		.7								6.4	4.7
NNW	1.4	2.1	.7	.7	. 7							5.7	7.3
VARBL													
CALM	$\times$	$\times$	$\times$	$>\!<$	$>\!<$	><	$>\!<$	$\sim$	$\sim$	$\sim$	>	10.6	
	26.2	29.1	20.6	9.9	3.5							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

141

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#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELDS TEXAS 73-77 FEB

STATION

ALL WEATHER

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CLASS

HOURE (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		5.0	3.5	5.0	5.0							18.4	11.8
NNE		2.1	4.3	1.4								7.8	8.7
NE	.7	2.8	3.5	.7								7.8	7.2
ENE	1.4	1.4	3.5									6.4	6.6
	1.4	.7	.7									2.8	4.3
ESE	2.1	2.1	.7									5.0	4.0
SE		2.1	2.6									5.0	6.9
SSE	.7	1.4	5.7	5.7								13.5	9.6
5	1.4	2.1	3.5	1.4								8.5	7.2
ssw	1.4	2.1	1.4									5.0	5.7
sw		.7	.7									1.4	6.0
wsw			.7									1 .7	10.0
w	1.4	.1	.7	1.4								4.3	8.2
WNW		.1		.7								1.4	11.0
NW	.7	.7		1.4								2.8	9.3
NNW	1.4	.7		2.8	1.4							6.4	10.4
VARSE													
CALM	$\sim$	><	><	><	><	$\times$	>	><	$\sim$	>	> <	2.8	
	12.8	25.5	31.9	20.6	6.4							100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 141

141

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SURFACE WINDS JAN

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#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77 FEB
STATION BARE ALL WEATHER 12
CLASS HOURS (LS.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	2.8	1.4	3.5	5.7	• 7	.7	1772-75					14.9	10.6
NNE	1.4	2.1	2.8	2.1								8.5	7.3
NE		2.1	1.4									3.5	6.4
ENE		1.4	2.1	.7								4.3	8.0
E	.7	.7	2.1									3.5	6.2
ESE		.7			.7							1.4	11.
SE			1.4	1.4								2.8	11.
SSE		1.4	4.3	8.5	2.8							17.0	12.
5	.7	4.3	4.3	11.3								20.6	10.
ssw	.7	1.4	2.1	2.8								7.1	8.
sw													
wsw		.7	• 7									1.4	6.0
w		.7		.7								1.4	9.0
WNW		1.4	1.4				.7					3.5	11.0
NW		.7		.7		.7						2.1	14.0
NNW			2.1	4.3	1.4							7.8	13.1
VARBL												1	
CALM	><	><	><	><	><	><	><	><	> <	><	> <	•0	
	6.4	19.1	28.4	38.3	5.7	1.4	.7					100.0	10.

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77 FEB

STATION

ALL WEATHER

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
Ň	1.4	2.8	2.8	3.5	• 7							11.3	8.0
NNE	.7	2.1	2.8	.7								6.4	7.8
NE			.7									.7	8.0
ENE	.7	.7	2.1	2.8								6.4	9.2
E			1.4									1.4	8,5
ESE	.7		.7	1.4								2.8	10.5
SE		1.4	2.1	6.4	4.3							14.2	13.4
SSE	.7	.7	1.4	9.9	2.1							14.9	12.
5	.7	2.0	3.5	3.5		.7						11.3	9.
ssw		1.4	1.4	.7								3.5	7.2
sw		1.4	.7									2.1	6.
wsw	.7											• 7	2.0
w		1.4		.7		.7						2.8	12.
WNW	.7			1.4		.7						2.8	12.0
NW			• 7	2.8	• 7							4.3	13.
NNW	1,4	1.4	2.1	3.5	2.1							10.6	11.
VARBL													
CALM	><	><	><	$>\!\!<$	><	><	> <	><	><	><	> <	3.5	
	7.8	16.3	22.7	37.6	9.9	2.1						100.0	10.

TOTAL NUMBER OF OBSERVATIONS

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

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12925	CHASE FIELD, TEXAS	73-77		FEB
STATION	STATION NAME		YEARS	MONTH
		ALL WEATHER		18
		CLASS		HOURS (L.S.T.)
		CONDITION		

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		2.1	3.5	5.0	1.4							12.1	10.5
NNE	.7	2.8	1.4	.7								5.7	7.0
NE		3.5	.7	.7								5.0	6.1
ENE	.7	1.4	.7									2.8	5.0
E	.7	1.4	2.8									5.0	6.3
ESE	.7	2.1	2.8	1.4								7.1	7.4
SE			7.8	18.4	3.5							29.8	12.6
SSE		2.1	2.8	5.0	.7						-	10.6	10.5
5	.7	2.1	2.1								-	5.0	6.6
ssw													
sw				-									
wsw													
w	.7											.7	2.0
WNW	STORES OF THE		•7	1.4	.7							2.8	13.8
NW	1.4	1.4	1.4	1.4								5.7	6.6
NNW		2.1	2.1		1.4							5.7	10.1
VARBL													
CALM	$>\!\!<$	><	><	><	><	>	> <	> <	$\sim$	$\sim$	> <	2.1	
	5.7	21.3	29.1	34.0	7.8							100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

## SURFACE WINDS

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SURFACE WINDS JAN

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#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925	CHASE FIELD, TEXAS	73-77		FEB
STATION	STATION NAME		YEARS	MONTH
		ALL WEATHER		21
	-	CLASS		HOURS (L.S.T.)
		CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N .	.7	3.5	5.0	3.5								12.8	8.7
NNE		.7	2.1								*	2.8	7.3
NE	.7	2.1	2.0									5.7	5.8
ENE	1.4	2.1	• 7									4.3	4.7
E	2.1	3.5	.7									6.4	4.9
ESE	1.4	7.1	.7	1.4								10.6	5.5
SE	1.4	9.9	6.4	1.4								19.1	6.7
SSE	1.4	5.7	5.0	4.3	2.1							18.4	9.2
5	.7	2.1	1.4									4.3	5.7
ssw	.7											.7	2.0
sw													
wsw													
w		.7										.7	4.0
WNW	1.4		. 7									2.1	4.7
NW	1.4											1.4	2.0
NNW	1.4	2.1		.7		•7						5.0	7.6
VARBL .													
CALM	><	><	><	><	> <	><	> <	> <	><	$\sim$	> <	5.7	
	14.9	39.7	25.5	11.3	2.1	.7						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 141

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

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12925	CHASE FIELD, TEXAS	73-77			FEB
STATION	STATION HAME		YEARS		MONTH
		ALL WEATHER			ALL
		CLASS		8	HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.0	3.3	4.5	4.0	1.3	•1						14.2	9.
NNE	. 6	2.7	3.0	.9								7.4	7.
NE	.4	1.5	1.9	.3								4.3	. 6 .
ENE	1.2	2.4	1.3	.4								5.4	5.
E	1.1	1.5	1.0	.1								3.6	5.
ESE	1.4	2.1	. 8	.5	•1							5.0	9.0
SE	.7	2.1	3.5	3.7	1.0							11.1	9.
SSE	1.2	2.6	3.5	5.4	1.2							13.8	10.
\$	1.4	2.1	2.4	2.5	• 2	•1						8.7	8.
SSW	1.1	.7	.7	.4								2.9	5.
sw	.2	.4	.2									.8	5.
wsw	.4	.4	. 2	.1								1.2	5.
w	,5	• 8	3	.4		•1						2.1	7.
WNW	.9	.4	.4	.4	•1	•1	•1					2.3	8.
NW	1.5	1.2	.4	1.0	•2	•1						4.3	7.
NNW	1.2	1.2	.9	1.9	1.0	•1	9					6.1	9.
VARBL													
CALM												6.6	

5.0

TOTAL NUMBER OF OBSERVATIONS

7.7

100.0

DIRNAVOCEANMET SMOS

15.0 25.8 24.9 22.1

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77
STATION STATION NAME ALL WEATHER DO HOURS (L.E.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3	1.9	1.9	3.9		.6						9.7	10.0
NNE		3.2	3.9	.6	•6							8.4	8,3
NE	.6	3,9	1.9									6.5	5.6
ENE	1.9	3.2										5.2	3.9
E	1.3	4.5	2.6	.6								9.0	6.2
ESE	3.9	3.2	3.9									11.0	5.2
SE	.6	6.5	6.5	4.5								18.1	8.5
SSE		1.3	5.2	5.2	2.6							14.2	11.9
5	2.6	.6	1.3	1.9	• 6							7.1	7.8
ssw		.0										.6	6.0
sw													
wsw													
w													
WNW	.6											.6	1.0
NW	1.9											1.9	2.7
NNW	.6			.6	•6							1.9	12.3
VARBL													
CALM	><	><	><	><	><	><	$\times$	><	> <	><	><	5.8	
	15.5	29.0	27.1	17.4	4.5	.6						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

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# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77
STATION STATION NAME ALL WEATHER 03
CLASS NOVER (L.S.T.)

	21.9	25.6	25.2	16.1	3.2	1.3						100.0	6.
CALM	><	><	> <	><	><	><	> <	> <	> <	><	> <	6.5	
VARBL	100												
NNW	1.3	.6		.6								2.6	6
NW	1.3	•6				.6						2.6	8
WNW	1.3											1.3	2
w	1.3											1.3	2
wsw													
sw	.6											.6	3
SSW	1.9	.6										2.5	2
5	2.6	.6	3.2	1.3								7.7	6
SSE	.6	3.2	4.5	6.5	1.3	.6						16.8	10
SE	.6	1.9	5.6	2.6								11.0	8
ESE	1.9	3.2	2.6	.6								8.4	6
•	3.2	3.2	1.3									7.7	4
ENE	1.3	3.2	1.3									5.8	5
NE	1.3	2.6	1.9	.6								6.5	6
NNE	.6	2.6		1.3	•6							5.2	- 8
N	1.9	3.2	4.5	2.6	1.3							13.5	8
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEA WIN SPEE

TOTAL NUMBER OF OBSERVATIONS

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# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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12925	CHASE FIELD, TEXAS	73-77		MAR
STATION	STATION NAME		YEARS	MONTH
		ALL WEATHER		06
		CLASS		HOURS (L.S.T.)
		CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
Ν .	2.6	2.6	4.5	3.9	•6							14.2	9.2
NNE	1.3	3.2	1.9	.6								7.1	6.3
NE	.6	3.2	1.9	.6								6.5	6.2
ENE	1.3	4.5	3.2									9.0	5.7
ŧ	1.9	5.2	1.3									8.4	5.2
ESE		3.9	.6									4.5	5.4
. SE	3.2	2.0	5.8	3.2								14.8	7.8
SSE	.6	1.9	3.2	4.5	1.3							11.6	10.3
5	.6	1.3	1.9									3.9	6.2
SSW	.6	1.3										1.9	4.3
sw			.6									.6	9.0
WSW		1.9										1.9	4.0
w													
WNW	4.5											4.5	2.1
NW	1,3			.6								1.9	6.0
NNW	.6			.6		v. III						1.3	7.5
VARBL													
CALM	><	><	><	><	$\times$	> <	><	> <	><	><	> <	7.7	
	19.4	31.6	25.2	14.2	1.9							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

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(3)

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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5702

SURFACE WINDS

JAN 78

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12925	CHASE FIELD, TEXAS	73-77		MAR
STATION	STATION NAME		YEARS	MONTH
		ALL WEATHER		09
		CLASS		HOURS (L.S.T.)

	9.0	18.1	35.5	28.4	5.8	.6						100.0	9.
CALM	> <	> <	><	> <	> <	$\geq \leq$	$\geq \leq$	$\geq \leq$	> <	><	$\geq \leq$	2,6	
VARBL													
NNW		1.3	1.9	.6	1.3	.6						5.8	11
NW	1,3		.6									1.9	5
WNW	1,3				.5							1.9	7
w			1.9	.6								2.6	9
wsw			.6									.6	7
sw	.6		.6									1.3	4
ssw		.6	.6									1.3	7
5	.6	3.9	5.0	3.2								13.5	8
SSE	,6	3.9	5.2	5.2	1.9							16.8	10
SE		. 6	1.9	7.1								9.7	11
ESE	.6	.6	1.9									3.2	6
E	1.3	2.6	4.5	1.3								9.7	7
ENE		2.6	1.9	.6								5.2	7
NE	1.9	•6	3.9	2.6								9.0	8
NNE		.6	2.6	3.9								7.1	11
N	. 6	.0	1.3	3.2	1.9							7.7	12
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	. ≥56	*	MEA WIN SPEE

TOTAL NUMBER OF OBSERVATIONS

155

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## SURFACE WINDS

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5702

SURFACE WINDS

78

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77
STATION NAME

ALL WEATHER

CLASS

HOURS (L.E.T.)

DIR.		1.9	1.9	5.2	1.9			<u>_</u>				11.0	SPEED 12.
NNE		1.3	3.2	1.3								5.8	8.
NE	.6	1.3	1.9	1.3								5.2	7.
ENE		.6	1.9	1.3								3.9	9.
ŧ	.6	2.6	1.9	2.6								7.7	8.
ESE		2.0	1.9	1.9								6.5	8,
SE			1.3	3.9	2.6							7.7	14.
SSE		1.9	4.5	10.3	1.9							18.7	12.
S	1.3	3.2	4.5	3.9	2.6	.6						16.1	11.
SSW			1.3	-1								1.3	8,
sw			. 6									.6	10.
wsw		1.3	.6	.6								2.6	7.
w		. 6		1.3								1.9	10.
WNW	1,9		.6	1.3								3.9	7.
NW	.6			1.3								1.9	10.
NNW			1.9	1.3	•6							3.9	12.
VARBL													
CALM	><	><	><	><	><	$\times$	><	><	><	$\sim$	><	1.3	
	5.2	17.4	28.4	37.4	9.7	.6						100.0	10.

TOTAL NUMBER OF OBSERVATIONS

155

12925

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

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CHASE FIELD, TEXAS 73-77 WEATHER CONDITION

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3		1.9	3.9	•6							7.7	10.6
NNE		1.3	3.2	1.3								5.8	8.6
NE		• 6	1.3	1.3								3.2	9.0
ENE		1.3	1.3	1.9								4.5	9.0
E		1.3	4.5									5.8	8.1
ESE		1.3	6.5	2.6	•6							11.0	9.9
SE	1.3		2.0	11.0	3.2			1				18.1	13.6
SSE			3.2	7.7	2.6	1.3		1				14.8	14.
\$	.6	2.0	2.6	.6								6.5	7.0
SSW		•6	1.9									2.6	7.5
sw			. 6									.6	8.0
wsw			1.9									1.9	8.
w	.6	.6	.6									1.9	5.
WNW			1.3	1.3	•6							3.2	12.0
NW			1.9	.6								2.6	11.3
NNW	1.3	.6	3.2	3.9								9.0	10.0
VARBL													
CALM	$\times$	> <	$\times$	><	><	> <	> <	><	><	><	> <	•6	
	5.2	10.3	38.7	36.1	7.7	1.3						100.0	10.

TOTAL NUMBER OF OBSERVATIONS

155

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77 MAR
STATION STATION HAVE ALL WEATHER 18
CLASS HOURS (LS.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	×	MEAN WIND SPEED
N	.6	1.3	1.9	3.9	•6	.6						9.0	11.8
NNE	.6	1.9	1.9	1.3								5.8	7.8
NE		1.3	.6	.6								2.6	7.0
ENE	.6	1.9	•6	1.9								5.2	8.8
E		5.8	2.6	1.9								10.3	7.6
ESE		1.9	1.9	9.7								13.5	11.2
SE	.6	.6	9.0	14.8	3.2							28.4	12.
SSE		.6	1.3	5.8	3.2							11.0	13.
5	.6		1.3									1.9	5.
ssw													
sw	.6	1.3										1.9	3.
wsw													
w		.6		.6								1.3	8.0
WNW	1.3		1.3	.6								3.2	6.
NW	.6		1.3									1.9	7.0
NNW		.6	1.3	1.3								3,2	9.0
VARBL													
CALM	><	><	$>\!<$	><	><	><	> <	> <	> <	$\sim$	>	.6	
	5.8	18.1	25.2	42.6	7.1	.6						100.0	10.

TOTAL NUMBER OF OBSERVATIONS

155

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DIRNAVOCEANMET SMOS

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5702 SURFACE WINDS JAN 78

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# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN 78

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12925 STATION CHASE FIELD, TEXAS 73-77 ALL WEATHER 5702

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.6	1.9	1.9	1.3	•6							6.5	8.7
NNE	1.3	3.2	1.9	2.6	•6							9.7	9.1
NE		2.0	1.9									4.5	6.6
ENE	1.3	3.9								1		5.2	4.1
E	2.6	3.9	3.2	1.3								11.0	5.9
ESE	1.3	7.7	5.2	3.2								17.4	7.4
SE	4.5	5.2	5.2	9.0								23.9	8.2
SSE	1.3	1.9	3.9	7.1	1.3							15.5	10.0
5													
ssw													
sw													
wsw													
w													
WNW		. 5										.6	5.0
NW	1,3											1.3	3.0
NNW	.6		.6	1.3								2.6	8.5
VARBL													
CALM	$\times$	> <	> <	><	><	> <	><	$\sim$	> <	$\sim$	> <	1.9	
	14.8	31.0	23.9	25.8	2.6							100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

155

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

100

CHAS	E FIELD	, TEXA	5			73-7	7					i*	AR
	*	STATION	HAME						YEARS				ONTH
					ALL WE								LL
					C	LASS						HOUR	(L.S.T.)
	_				con	DITION							
								1					
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.1	1.7	2.5	3.5	1.0	• 2						9.9	10.3
NNE	.5	2.2	2.3	1.6	• 2							6.9	8.6
NE	.6	2.0	1.9	.9								5.5	7.0
ENE	.8	2.7	1.3	.7								5.5	6.5
E	1.4	3.6	2.7	1.0								8.7	6.6
ESE	1.0	3.1	3.1	2.3	•1							9.4	7.9
SE	1.4	2.2	4.8	7.0	1.1							16.5	10.4
SSE	.4	1.9	3.9	6.5	2.0	.2						1409	11.8
5	1.1	1.5	2.6	1.4	.4	.1						7.1	8.3
ssw	.3	.5	.5									1.3	5.7
sw	.2	.2	.3									.7	5.3
wsw		.4	.4	.1								.9	6.8
w	,2	.2	.3	.3								1.1	7.4
WNW	1.4	.1	.4	.4	• 2							2.4	6.0
NW	1.0	• 1	.5	.3		•1						2.0	7.2
NNW	.6	.4	1.1	1.3	• 3	•1						3.8	10.0
VARBL						Br .							
CALM		$\times$	> <	$\times$	$\times$	$\sim$	$\times$	$\sim$	$\sim$	$\times$	$\sim$	3.4	
	12.1	22 "	20'4	07 3								100.0	

TOTAL NUMBER OF OBSERVATIONS

1240

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# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

12925	CHASE FIELD, TEXAS	73-77		APR
STATION	STATION HAME		YEARS	MONTH
		ALL WEATHER		00
		CLASS		HOURS (L.S.T.)
		CONDITION		

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 · 16 _	J2-21-	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3	201	•7	1.3								6.0	6.7
NNE	1.3	2.7	1.3									5.3	5.1
NE		2.7	1.3									4.0	5.
ENE	1.3	5.3										6.7	4.0
E	4.7	2.0	3.3									10.0	4.5
ESE	2.7	6.7	5.3	.7								15.3	6.2
SE	2.7	.7	6.7	6.7	.7							17.3	9.5
SSE	.7	2.7	3.3	9.3	2.0							18.0	11.3
5	1.3	.7										2.0	3.
SSW		.7	.7									1.3	7.0
sw													
wsw													
w		•7										.7	5.0
WNW													
NW	1.3											1.3	1.!
NNW	.7		1.3									2.0	6.3
VARBL													
CALM	><	> <	> <	> <	>	> <	> <	> <	> <	> <	>	10.0	
	18.0	27.3	24.0	18.0	2.7							100.0	6.

TOTAL NUMBER OF OBSERVATIONS 150

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925	CHASE FIELD, TEXAS	73-77	APR
STATION	STATION HAME	YEARS	MONTH
		ALL WEATHER	03
		CLASS	HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1,3	.7	2.0	1.3				.0-				5.3	6.5
NNE	.7	2.7	2.0	1.3								6.7	6.1
NE	1.3	2.7	.7									4.7	4.
ENE	3,3	4.0	• 7									8.0	4.4
E	6.0	4.7	2.7									13.3	4.
ESE		4.7	3.3	.7			.7					9.3	8.3
SE	1.3	4.0	4.0	5.3								14.7	8.2
SSE	.7	2.0	6.0	4.7	1.3							14.7	10.
S		2.0	• 7	.7	.7							4.0	9.!
SSW		.7										.7	6.0
sw													
wsw	.7											.7	2.0
w	,7											.7	3.1
WNW	.7	. 7										1.3	3.
NW	2.7	.7										3,3	3.0
NNW		1.3	1.3	.7								3.3	8.
VARBL													
CALM	><	><	><	><	><	> <	><	><	><	><	> <	9,3	
	19.3	30.7	23.3	14.7	2.0		.7					100.0	6.

TOTAL NUMBER OF OBSERVATIONS

150

5702 SURFACE WINDS JAN

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# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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	E FIELD	STATIO				73-7			YEARS				PR
					ALL WI	EATHER							06
					٠	LASS						NOUR	(L.S.T.)
					coı	IDITION							
	_												
SPEED	(KNTS) 1-3 4-6 7-10									:			MEAN
DIR.	1.3	4.0	7 - 10	11 - 16	17 - 21	22-27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	SPEED
N	2.0	5.3	2.0	3.3								12.7	7.
NNE	2.7	2.7	2.7					2				8.0	5.
NE	1.3	2.7	2.0									6.0	5,
ENE		4.0							100			4.0	5.
ŧ	2.7	7.3	2.0									12.0	4.
ESE	2.7	2.7	4.0	2.0								11.3	6.
SE	2.0	2.0	7.3	2.7	.7							14.7	8.
SSE		.7	2.7	4.0								7.3	9.
•	1 2		**			-	A THE RESERVE					2.0	4

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	<del>22 - 27</del> -	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	2.0	5.3	2.0	3.3								12.7	7,7
NNE	2.7	2.7	2.7									8.0	5.2
NE	1.3	2.7	2.0									6.0	5.4
ENE		4.0										4.0	5.
ŧ	2.7	7.3	2.0									12.0	4.6
ESE	2.7	2.7	4.0	2.0								11.3	6.5
SE	2.0	2.0	7.3	2.7	• 7							14.7	8.
SSE		.7	2.7	4.0								7.3	9.
S	1.3		.7									2.0	4.
SSW													
sw	2.0	.7										2.7	2.
WSW	,7											.7	3.
w	.7											.7	2.
WNW	.7											.7	3.
NW		.7	1.3									2.0	7.
NNW	.7	3.3		1.3	•7							6.0	8.0
VARBL													
CALM	><	><	><	$>\!\!<$	><	> <	><	><	><	><	><	9.3	
	19.3	32.0	24.7	13.3	1.3							100.0	6.

TOTAL NUMBER OF OBSERVATIONS 150

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION STATION HARE ALL WEATHER 09

CLASS CHASE FIELD, TEXAS 73-77

VEARE MONTH

HOURE (L.S.T.)

	8.7	18.0	39.3	30.7	2.7							100.0	9
CALM	><	><	><	><	><	><	><	$>\!\!<$	><	><	$>\!\!<$	• 7	
VARBL													
NNW	.7	.7		1.3								2.7	8
NW	,7	.7										1.3	2
WNW		• 7		.7								1.3	8
w			1.3									1.3	9
wsw		•7										.7	4
sw		1.3										1.3	4
ssw													
5		1.3	3.3	1.3	• 7							6.7	9
SSE	1.3	2.0	4.7	6.7								14.7	10
SE	.7		6.7	8.0	.7							16.0	11
ESE		2.0	9.3	4.0								15.3	•
E		3.3	4.7	.7								8.7	-
ENE	2.0	1.3	2.0	.7								6.0	-
NE	2.0	1.3	2.0	1.3								6.7	6
NNE	1.3	1.3	2.7	3.3	***						_	8.7	9
N		1.3	2.7	2.7	1.3		-					8.0	11
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	ME. WII SPE

TOTAL NUMBER OF OBSERVATIONS

150

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SURFACE WINDS JAN

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# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 STATION CHASE FIELD, TEXAS 73-77 ALL WEATHER

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		2.7	2.7	4.0								9.3	9.4
NNE		1.3	2.0	2.0								5.3	8.9
NE		2.0	2.0	.7								4.7	7.9
ENE		.7	2.7	.7								4.0	9.2
E		3.3	3.3	.7								7.3	7.7
ESE		2.0	2.7	4.7								9.3	11.0
SE		.7	5.3	18.0	3.3							27.3	12.6
SSE		.7	3.3	6.7	3.3	.7						14.7	13.8
3	1.3	2.0	.7	1.3		.7						6.0	8.7
ssw		.7										.7	6.0
sw		.7		.7								1.3	9.0
wsw	.7		.7									1.3	5,5
w													
WNW													
NW		1.3		1.3								2.7	9.3
NNW	.7	.7		2.7								4.0	10.8
VARBL													
CALM	$\sim$	$\times$	> <	$\times$	$\times$	$\times$	> <	$\sim$	> <	$\sim$	> <	2.0	
	2.7	18.7	25.3	43.3	6.7	1.3						100.0	10.6

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS

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# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

CLASS

APR

MONTH

ALL WEATHER

15

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		2.7	1.3	2.0	•7							6.7	9.0
NNE	1.3	2.0	3.3									6.7	6.0
NE		1.3	2.7	.7								4,7	8.
ENE		1.3	1.3									2.7	7.0
E		3.3	1.3	2.0								6.7	7.
ESE	.7	•7	5.3	6.7	• 7							14.0	11.
SE		2.0	5.3	24.0	4.7	.7						36,7	13.
SSE			.7	2.7	3.3	.7						7.3	16.
5		1.3	1.3	1.3								4.0	8,
ssw		1.3										1.3	5.
sw													
wsw													
w													
WNW		• 7										.7	5.
NW			.7	1.3								2.0	12.
NNW			• 7	4.0	.7							5.3	14.
VARBL													
CALM	><	><	> <	> <	><	> <	> <	> <	> <	><	> <	1.3	
	2.0	16.7	24.0	44.7	10.0	1.3						100.0	11.

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

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12925 STATION

# SURFACE WINDS

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SURFACE WINDS JAN

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### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CHASE FIELD, TEXAS
T3-77

STATION NAME

ALL WEATHER
CLASS
HOURS (LS.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		• 7	3.3	1.3	• 7							6.0	10.8
NNE	.7	1.3	2.0	.7								4.7	7.4
NE		.7	2.0									2.7	7.3
ENE		2.0	2.0	2.0								6.0	8.5
E		1.3	4.0	2.0								7.3	9.4
ESE		.7	6.0	10.7								17.3	11.1
SE		.7	9.3	25.3	3.3							38.7	12.
SSE	.7		1.3	3.3	1.3							6.7	12.
5													
SSW													
sw		.7										.7	6.0
wsw													
w	1.3											1.3	2.0
WNW													
NW		.7									*	.7	5.0
NNW		2.0	1.3	1.3	.7							5.3	10.4
VARBL													
CALM	><	><	> <	$>\!\!<$	> <	$>\!\!<$	><	><	><	><	> <	2.7	
	2.7	10.7	31.3	46.7	6.0							100.0	10.

TOTAL NUMBER OF OBSERVATIONS 150

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

884

5702

SURFACE WINDS

JAN 78

HH

0

TATION TEXAS

STATION NAME

ALL WEATHER

CONDITION

CONDITION

APR

MONTH

APR

MOUNT (L.S.T.)

	13.3	30.7	33.3	16.0	1.3	2.0						100.0	7.
CALM	><	$\geq \leq$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$>\!\!<$	$\geq \leq$	3.3	
VARBL													
NNW	.7		1.3									2.0	6.
NW													
WNW		.7	.7									1.3	6.
w													
sw wsw												1	
SSW												-	
5													
SSE		1.3	1.3	3.3	•7							6.7	11
SE	2.0	8.7	11.3	6.7	• 7	1.3						30.7	9,
ESE	2.0	9.3	8.0	2.7								22.0	6
ŧ	4.7	4.7	4.7	.7								14.7	5
ENE	1.3	1.3	1.3	.7								4.7	6
NE	.7	2.0	1.3									4.0	5
NNE	2.0	2.0	2.7	.7		• '						7.3	6
N		.7	.7	1.3		.7						3.3	13.
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	WIND

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

0

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1885

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5702

SURFACE WINDS JAN

78

12925	CHASE FIEL	D. TEXAS	73-77		APR
STATION		STATION HAME		YEARS	MONTH
			ALL WEATHER		ALL
			CLASS		HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	`≥56	*	MEAN WIND SPEED
N	.6	2.1	1.9	2.2	• 3	•1						7.2	9.2
NNE	1.2	2.0	2.3	1.0								6.5	6.9
NE	.7	1.9	1.7	.3								4.7	6.3
ENE	1.0	2.5	1.2	,5								5.2	6.2
E	2,2	3.7	3.2	.7								10.0	6.1
ESE	1.0	3.6	5.5	4.0	•1		•1					14.2	8.7
SE	1.1	2.3	7.0	12.1	1.7	.2						24.5	11.2
SSE	.4	1.2	2.9	5.1	1.5	.2						11.2	11.7
\$	.5	.9	. 0	.6	• 2	.1						3.1	8.3
SSW		.4	•1									.5	6.0
sw	.2	.4		• 1								.7	4.7
wsw	.2	.1	• 1									.4	4.0
w	.3	• 1	.2									.6	4.6
WNW	.2	. 3	.1	.1								.7	5.4
NW	.6	.5	• 2	,3								1.7	6.2
NNW	.4	1.0	•7	1.4	• 2							3.8	9.8
VARBL													
CALM	$>\!<$	><	$>\!<$	$>\!\!<$	$>\!<$	$>\!<$	$>\!<$	> <	> <	><	> <	4.8	
	10.7	23.1	28.2	28.4	4.1	.6	•1					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 1200

DIRNAVOCEANMET SMOS

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# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION

STATION NAME

ALL WEATHER

CONDITION

CONDITION

CONDITION

MAY

MONTH

MONTH

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.6	3.2	2.0									6.5	6.0
NNE	.6	.6	1.3	.6								3.2	6.8
NE	1.3	1.9										3.2	4.2
ENE	3.2	1.3	.6	.6								5.8	4.3
E	3.9	7.1	2.6									13.5	4.3
ESE	4.5	6.5	1.9									12.9	4.4
SE	5,2	7.1	9.0	1.9	• 6							23.9	6.6
SSE	3.2	3.2	3.2	2.6	.6							12.9	7.5
5	2.6	.6	.6	.6								4.5	5.1
ssw	. 6											.6	2.0
sw	.6		.6									1.3	6.
wsw													
w	.6											.6	2.0
WNW				.6								.6	12.0
NW													
NNW	.6	1.3										1.9	4.3
VARBL													
CALM	> <	> <	> <	> <	> <	> <	> <	><	> <	><	> <	8.4	
	27.7	32.9	22.6	7.1	1.3							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS

155

5702 SURFACE WINDS JAN 78

# SURFACE WINDS

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SURFACE WINDS JAN

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## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS
STATION STATION NAME

ALL WEATHER

CLASS

HOURS (LS.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3	2.6	1.3	1.3								6.5	6,6
NNE	.6	2.6										3.2	4.8
NE	1.3	3.9	1.9	.6								7.7	5.1
ENE	3.2	3.9										7.1	3.
E	6.5	3.9	3.2									13.5	4.
ESE	2.6	1.9	2.6									7.1	4.
SE	3,2	7.1	3.2	.6	.6							14.8	6.
SSE	1.9	2.0	2.6	1.9								9.0	7.
\$	1,3	1.9	3.2	1.3								7.7	7.0
SSW	.6											.6	3.0
sw	.6											.6	2.
wsw		. 6										.6	5.0
w		.6					•					.6	4.1
WNW	1,3											1.3	2.
NW	1.3											1.3	2.
NNW	1.9	.6	1.3			.6						4.5	7.
VARBL													
CALM	><	$\times$	$>\!\!<$	$>\!<$	$>\!<$	> <	> <	><	> <	$\sim$	>	13.5	
	27.7	32.3	19.4	5.8	•6	.6						100.0	4.

TOTAL NUMBER OF OBSERVATIONS

155

12925

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

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CHASE FIELD, TEXAS

STATION NAME

ALL WEATHER

CLASS

COMDITION

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	4.5	4.5	3.9	1.3								14.2	5.4
NNE	1.3	3.2	.6									5.2	4.8
NE	.6	3.9	1.3									5.8	5.0
ENE	1.9	5.2	1.9	1								9.0	5.0
E	6.5	2.6	1.3									10.3	3.1
ESE	1.3	7.1	3.2									11.6	5.2
SE	1.9	2.0	2.6									7.1	5.3
SSE	3.9	3.9	3.9	.6								12.3	5.
S		1.3	.6	.6								2.6	7.
ssw	.6	1.3										1.9	3.
sw	1.3											1.3	2.
wsw													
w													
WNW	1.3	.6										1.9	2.
NW	3,2	1.3										4.5	3.
NNW	1.3	.6	.6									2.6	3.
VARBL													
CALM	$\sim$	$\times$	><	><	>	$\sim$	$\times$	>	X	$\sim$	>	9.7	
	29.7	38.1	20.0	2.6								100.0	4.

TOTAL NUMBER OF OBSERVATIONS 155

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

same

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SURFACE WINDS .

JAN 78

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6488

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

COMDITION

COMDITION

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N			1.3	1.9								3.2	12.8
NNE		. 6	3.2									3.9	8.0
NE	.6	.6	5.2	1.9								8.4	8.7
ENE	1.3	3.9	.6									5.8	5.0
E	.5	1.3	3.2									5.2	7.1
ESE	.6	1.3	1.3	1.9								5.2	8.3
SE	.6	2.6	10.3	5.8								19.4	9.5
SSE	.6	5.2	7.1	9.0								21.9	9.4
5		2.6	7.7	2.6								12.9	8.6
ssw			.6									,6	8.0
sw													
wsw													
w	1.9		.6	.6								3.2	6.4
WNW		. 0										.6	5.0
NW		1.3	1.3									2.6	6.8
NNW	.6	• 0	1.3									2.6	5.5
VARBL													
CALM	><	><	><	><	> <	$\sim$	> <	> <	> <	$\sim$	> <	4.5	
	7.1	20.6	43.9	23.9								100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 155

## SURFACE WINDS

1000

0

SURFACE WINDS JAN

78

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# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CONDITION

12925 CHASE FIELD, TEXAS 73=77

STATION STATION MARK

ALL WEATHER

CLASS

HOURE (LET.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		2.5	4.5	1.9								9.0	9.1
NNE			1.3	.6								1.9	10.0
NE		• 6		.6								1.3	9.5
ENE	1.9	.6	2.6	.6								5.8	6.2
E	1.3	• 0	3.9		•6							6.5	7.5
ESE		2.6	7.1	5.2								14.8	9.8
SE		1.3	4.5	9.0								14.8	11.7
SSE	2.6	• 6	11.6	10.3	•6	.6						26.5	10.5
5	.6	2.6	2.6	2.6								8.4	8.5
SSW	1.9		.6									2.6	4.0
sw		.0										.6	5.0
wsw	.6											.6	2.0
w		.6	.6									1.3	8.0
WNW			.6									.6	9.0
NW				.6								.6	12.0
NNW		. 6	1.3									1.9	7.7
VARBL	The Later of												
CALM	><	><	><	><	><	><	><	> <	> <	><	> <	2.6	
	9.0	13.5	41.3	31.6	1.3	.6						100.0	9.2

TOTAL NUMBER OF OBSERVATIONS

155

# SURFACE WINDS

0

1488

0

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5702

SURFACE WINDS JAN

5684

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### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CONDITION

12925 CHASE FIELD, TEXAS 73-77

STATION STATION NAME

ALL WEATHER

CLASS

CLASS

MAY

MONTH

MOUNT (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		1.9	2.6	1.9								6.5	8.
NNE		100	3.2	.6								4.5	9.
NE		• 0	/									.6	6.
ENE	.6	.6	1.3	/								2.6	6.
E		3.9	3.9	1.3								9.0	7.
ESE	.6	3.2	3.9	9.7								17.4	10.
SE		3.2	10.3	18.7	•6							32.9	11.
SSE	.6	1.3	5.2	6.5	.6							14.2	10.
5	.6		1.3									1.9	7.
SSW	1.3	.6										1.9	3,
sw													
wsw													
w		.6										.6	4.
WNW			1.3									1.3	9.
NW				.6								.6	11.
NNW	1.3	1.3	1.3	1.3								5.2	7.
VARBL													
CALM	><	><	><	><	> <	><	><	><	><	><	><	.6	
	5.2	18.1	34.2	40.6	1.3							100.0	9.

TOTAL NUMBER OF OBSERVATIONS

155

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CHAS	E FIEL	D. TEXA				73-7	7					P	AY
		STATION	HAME						YEARS				HTHO
					ALL WE	ATHER							18
					C	LASS						HOUR	(L.S.T.)
	-				con	DITION							
	_												
									,	,		-	
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		1.9	5.2	2.6								9.7	9.4
NNE			2.6	.6								3.2	8.8
NE		• 6	1.9	.6								3.2	8.2
ENE		1.9	1.9									3.9	6.8
E		1.9	2.6	1.3								5.6	8.6
ESE		2.6	7.1	12.9								22.6	10.9
SE		1.3	17.4	18.1	•6							37.4	11.3
SSE		1.9	1.9	5.8								9.7	9.7
3		1.9		.6								2.6	6.5

TOTAL NUMBER OF OBSERVATIONS

10.1

5.0

4.0

6.0

.6

.6

.6

100.0

DIRNAVOCEANMET SMOS

SSW

wsw w

WNW

NW

NNW

VARBL

. 0

.6

. 6

16.1

40.6

42.6

.6

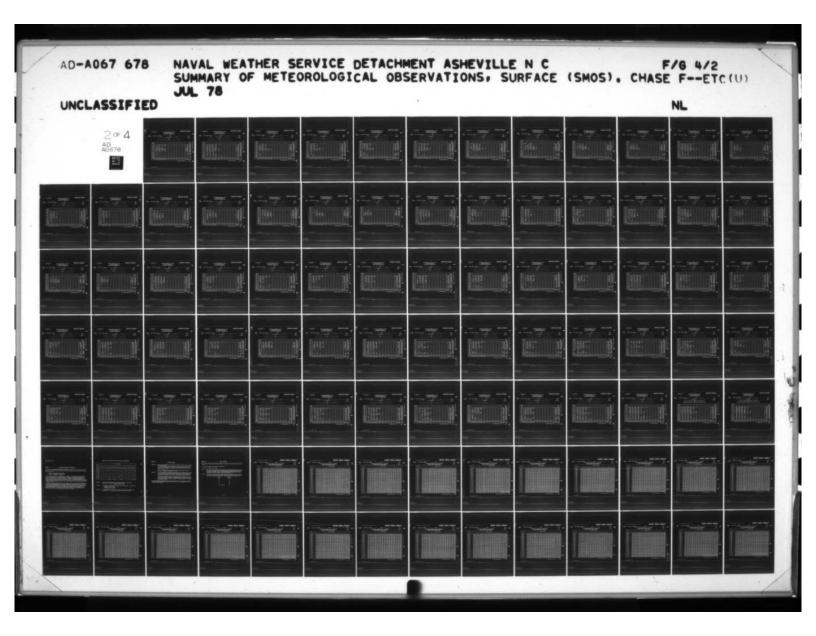
6

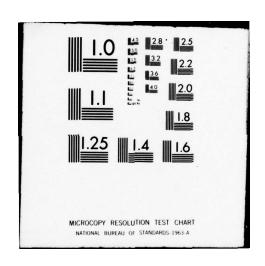
5702 SURFACE WINDS JAN 78

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# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77
STATION

STATION AND STATION HARE

ALL WEATHER

CLASS

CONDITION

CONDITION

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		1.3	1.3	1.3								3.9	8.3
NNE	1.9	1.9		1.3								5.2	6.1
NE		1.3										1.3	5.0
ENE	.6	1.9	.6									3.2	5.6
E	3,2	6.5	1.3									11.0	4.7
ESE	3.2	8.4	6.5	1.3								19.4	6.1
SE	1.3	16.8	14.8	3.9								36.8	7.1
SSE	1.9	4.5	3.2	2.6								12.3	6.5
5	.6	. 5										1.3	3,5
SSW		.6										.6	5.0
sw													
wsw	.6											.6	2.0
w	1.3											1.3	3.0
WNW													
NW													
NNW		.6										.6	5.0
VARBL													
CALM	><	><	><	><	> <	$\times$	> <	> <	>	$\sim$	>	2.6	
	14.8	44.5	27.7	10.3								100.0	6.

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

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5702 SURFACE WINDS JAN 78

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# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION STATION HARE ALL WEATHER

CLASS HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.8	2.3	2.5	1.5								7.4	7.7
NNE	.6	1.2	1.5	.5								3.8	7.1
NE	.5	1.7	1.3	.5								4.0	6.6
ENE	1.6	2.4	1.2	.2								5.4	5.1
E	2.7	3.5	2.7	.3	•1							9.4	5,5
ESE	1.6	4.2	4.2	3.9								13.9	7.9
SE	1.5	5,2	9.0	7.3	• 3							23.4	9.1
SSE	1.9	2.9	4.8	4.9	.2	•1						14.8	8.8
\$	.7	1.5	2.0	1.0								5.2	7.5
ssw	.6	.3	.2									1.1	3.9
sw	.3	.2	.1									.6	4.3
wsw	,2	•1										.2	3.0
w	.5	.2	.2	.1								1.0	5.3
WNW	,3	.2	• 2	.1								.9	5.5
NW	.6	. 3	.2	.2								1.2	5.1
NNW	.7	.8	•7	.2		•1						2.5	6.2
VARBL													
CALM	> <	><	> <	><	> <	>	> <	> <	$\sim$	$\sim$	>	5.2	
	15.2	27.0	31.2	20.6	.6	.2						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

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SURFACE WINDS

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## SURFACE WINDS

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## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77
STATION STATION NAME ALL WEATHER OO HOUSE (LET.)

SPEED (KNTS) DIR. MEAN WIND SPEED 1 - 3 7 - 10 11 - 16 17 - 21 22 - 27 2.0 1.3 .7 5.3 NNE 2.0 1.3 2.0 6.7 ENE 6.0 4.7 8.0 7.3 2.0 5.3 11.3 7.3 13.3 ESE 1.3 2.0 SE 3,3 18.0 5.3 4.7 1.3 1.3 5 1.3 SSW 4.0 sw .7 wsw .7 7.0 w 2.0 2.7 WNW .7 NW NNW .7 3.0 VARBL 9.3 CALM 32.7 3.3 36.7 16.7 1.3 100.0 4.5

TOTAL NUMBER OF OBSERVATIONS 150

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

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CHASE FIELD, TEXAS 12925 73-77 WEATHER 03 D D 5702

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	2.0	1.3	.7		• 7							4.7	6,9
NNE	2.0	2.7										4.7	4.1
NE	1.3	2.0	.7									4.0	4.7
ENE	5.3	2.0	•7									8.0	3.6
E	6.0	4.0										10.0	3.6
ESE	3,3	4.0										7.3	3.7
SE	7.3	3.3	3.3	1.3	.7							16.0	5,5
SSE	4.0	3.3	4.7	2.7	•7							15,3	7.4
5	1.3	2.0	2.0	.7								6.0	6.6
ssw	2.0	.7										2.7	2.5
sw	.7											.7	3.0
wsw	.7											.7	3.0
w													
WNW	1.3											1.3	2.0
NW	.7	.7										1.3	3.0
NNW		1.3										1.3	4.5
VARBL													
CALM	><	><	><	><	><	><	>	><	><	$\sim$	> <	16.0	
	38.0	27.3	12.0	4.7	2.0							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 150

12925 STATION

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CHASE FIELD, TEXAS 73-77

STATION NAME

ALL WEATHER

CLASS

HOUSE (L.S.T.)

SPEED (KNTS) MEAN WIND SPEED 7 - 10 1 - 3 4 - 6 11 - 16 17 - 21 22 - 27 28 - 33 34 - 40 41 - 47 ≥56 48 - 55 DIR. 3.3 1.3 8.7 3.7 N 1.3 4.7 1.3 4.6 .7 1.3 3.3 NE 8.7 4.0 2.7 ENE .7 3.3 6.0 . 5.3 ESE 2.7 2.7 SE 9,3 2.7 16.0 6.2 SSE \$ 1.3 SSW SW WSW 3,3 2.0 1.8 3.7 3.3 WNW 2.0 4.0 NNW 14.7 37.3 6.0 100.0

TOTAL NUMBER OF OBSERVATIONS

150

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SURFACE WINDS

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# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

78

2925	CHASE FIELD, TEXAS	73-77	JUN
STATION	STATION NAME	YEARS	MONTH
		ALL WEATHER	09
		CLASS	HOURS (L.S.T.)
		CONDITION	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3	1.3	1.3	.7								4.7	6.9
NNE		4.0	1.3	.7								6.0	6.7
NE	1.3	•7	2.7	.7								5.3	6.8
ENE		.7	2.7									3.3	7.8
	.7	4.7										5.3	4.8
ESE	2.7	1.3	1.3	.7								6.0	5.4
SE		1.3	3,3	2.7	.7							8.0	10.3
SSE	1.3	2.7	6.0	9.3	2.7							22.0	11.2
5	2.0	4.0	10.7	11.3	•7							28.7	9,5
ssw	.7	2.0	.7									3.3	5,4
sw	.7											.7	1.0
wsw													
w	1.3											1.3	2.0
WNW	.7		.7									1.3	5.0
NW			-										
NNW			1.3									1.3	7.5
VARSL													
CALM	$\sim$	>	$\sim$	$\sim$	>	X	$\sim$	$\sim$	X	$\sim$	><	2.7	
	12.7	22.7	32.0	26.0	4.0							100.0	8,3

TOTAL NUMBER OF OBSERVATIONS

150

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

78

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12925	CHASE FIELD.	TEXAS		73-77		JUN	
STATION		STATION NAME			YEARS	MONTH	
			ALL	WEATHER		12	0
				CLA95		HOURS (L.F.T.)	
	-			CONDITION	THE STATE OF THE S		0
							570
							20 1

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.7	1.3	.7									2.7	5.0
NNE		2.0	2.7	.7								5.3	7.
NE		2.0	1.3	2.0								5,3	9.
ENE	.7	2.7	1.3									4.7	5.
E		3,3	2.0	.7								6.0	6.
ESE	1.3	3.3	2.0	1.3								8.0	6.
SE	1.3	4.7	4.0	8.7	.7	.7						20.0	10.
SSE	.7	1.3	6.7	11.3	2.0	.7						22.7	11.
S		2.7	8.0	6.0								16.7	9.
SSW		1.3	.7									2.0	6.
sw			.7									.7	8.
wsw	.7											.7	2.
w											****		
WNW													
NW		.7										.7	4.
NNW			.7									.7	8.
VARBL													
CALM	><	$>\!\!<$	><	><	$>\!\!<$	> <	$\times$	$\sim$	$\sim$	$\sim$	> <	4.0	
	5.3	25.3	30.7	30.7	2.7	1.3						100.0	8,

TOTAL NUMBER OF OBSERVATIONS

150

2

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

25	CHASE	FIELD					73-7	7						IUN		
MOTATION			STATIO	STATION NAME YEARS										MONTH		
		ALL WEATHER										HOUSE	15 (L.S.T.)			
													HOUR	(6.0.1.)		
		-				CON	DITION				_					
	SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED		
	N	.7		1.3									2.0	6.0		
	NNE	2.0	.7	1.3	.7								4.7	6.6		
	NE		.7	3.3									4.0	8.0		
	ENE		2.0	2.7	.7	• 7							6.0	9.1		
	E	1.3	3.3	6.0	.7								11.3	7.4		
	ESE	.7	2.0	4.7	.7								8.0	8.4		
	SE		2.0	10.0	20.0	2.0							34.0	11.8		
	SSE	1.3	1.3	4.7	8.7	2.7							18.7	11.8		

N	.7		1.3									2.0	6.0
NNE	2.0	.7	1.3	.7								4.7	6.6
NE		.7	3.3									4.0	8.0
ENE		2.0	2.7	.7	.7							6.0	9.1
E	1.3	3.3	6.0	.7								11.3	7.4
ESE	.7	2.0	4.7	.7								8.0	8.4
SE		2.0	10.0	20.0	2.0							34.0	11.8
SSE	1.3	1.3	4.7	8.7	2.7							18.7	11.8
5	1.3	1.3	2.0	2.0								6.7	7.7
ssw		.7		.7								1.3	9.0
sw													
wsw													
w													
WNW			.7									.7	8.0
NW	.7		• 7									1.3	5.0
NNW		.7										.7	5.0
VARBL													
CALM	><	><	><	><	><	><	$\geq <$	><	><	><	$\supset <$	.7	
	8.0	14.7	37.3	34.0	5.3							100.0	9.8

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS 0

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STATION	CHASE FIELD, TEXAS	73-77	YEARS	JUN
		ALL WEATHER		18
		CLASS		HOURS (L.S.T.)
		CONDITION		

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N													
NNE		2.0	2.7									4.7	7.
NE		.7	.7									1.3	6.
ENE	.7	3.3	3.3	.7								8.0	6.
E	.7	2.7	1.3	1.3								6.0	7.
ESE	.7	3.3	4.7	9.3								18.0	9.0
SE		2.0	14.0	26.7	5.3							48.0	12.
SSE	.7		2.0	6.0	.7							9.3	11.
5		.7	.7									1.3	6.
SSW						FIG. FI							
sw		REF.											
wsw													
w													
WNW		1.3										1.3	4.
NW													
NNW													
VARBL													
CALM	><	> <	> <	> <	> <	> <	> <	> <	> <	> <	> <	2.0	
	2.7	16.0	29.3	44.0	6.0							100.0	10.

TOTAL NUMBER OF OBSERVATIONS

150

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## SURFACE WINDS

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WINDS

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100.0

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77 YEARS ALL WEATHER 21 SPEED (KNTS) DIR. 1 - 3 4 - 6 7 - 10 11 - 16 17 - 21 28 - 33 22 - 27 41 - 47 48 - 55 ≥56 N .7 2.7 7.0 NNE 2.0 2.7 2.0 NE 3.3 ENE 12.7 . .7 22.0 ESE 6.0 2.7 20.0 SE 14.7 43.3 7.6 SSE 10.0 7.0 2.0 5 2.0 SSW SW WSW w .7 WNW 4.0

.7

32.0

9.3

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

NW

NNW

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS

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12925	CHASE FIELD, TEXAS	73-77	JUN
STATION	STATION HAME	YEARS	MONTH
		ALL WEATHER	ALL
		CLASS	HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1,0	. 8	.7	.1	.1							2.7	5.
NNE	1.0	2.2	1.3	.2								4.8	5,
NE	,6	1.2	1.6	.3								3.7	6.
ENE	2,1	2.3	1.4	.2	•1							6.1	5.
E	2,7	3,8	1.2	.3								8.1	4.
ESE	2,7	4.7	2.5	1.5								11.4	6,
SE	2,3	5.2	7.9	8.7	1.2	•1						25.4	9.
SSE	2.6	2.8	4.2	5.6	1.2	•1						16.5	9,
S	1.0	1.0	3.2	2.6	•1							8.7	8,
SSW	.3	.6	.2	.1								1.2	5,
sw	.2	•1	• 1									,3	4,
wsw	. 2										1	.2	2
w	, 2		.1									.3	3,
WNW	• 7	.2	• 2									1.2	3,
NW	,4	.4	.2									1.0	4,
NNW	.5	.7	• 2	•1								1.5	5,
VARBL								-					
CALM	$\times$	><	><	> <	><	><	> <	><	> <	><	><	6.7	
	18.5	27.2	25.0	19.7	2.7	•2						100.0	7.

TOTAL NUMBER OF OBSERVATIONS

1200

2

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925	CHASE FIELD, TEXAS	73-77	JUL
STATION	STATION HAME	YEARS	MONTH
		ALL WEATHER	00
		CLASS	HOURS (L.S.T.)
		CONDITION	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	WIND SPEED
N													
NNE	.6	. 6										1.3	3.
NE		1.9										1.9	4.
ENE	3,2	1.3										4.5	3.
E	6.5	2.6	.6									9.7	3.
ESE	5,8	5.2	.6									11.5	3,
SE	11.6	12.3	3.9	.6								28.4	4.
SSE	6.5	2.6	3.9									12.9	4.
5	7.7	5.2	2.6									15.5	4.
ssw													
sw													
wsw	.6											.6	3.
w	1.3											1.3	2.
WNW													
NW													
NNW													
VARBL													
CALM	><	><	><	><	> <	><	><	><	> <	$\sim$	> <	12.3	
	43.9	31.6	11.6	.6								100.0	3.

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CHASI	E FIELD	, TEXA	S			73-7						J	IUL
		STATION	NAME						YEARS			-	IONTH
					ALL WI	ATHER							03
						LASS							(L.S.T.)
	_				cor	DITION							
SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	×	MEAN
													SPEED
N	.6	.0										1.3	4,5
NNE		2.6										2.6	4.8
NE	1.3	1.9	.6									3.9	4.7
ENE	4.5	3,9										8.4	3.5
E	5.2	1.9	.6									7.7	3.1
ESE	4.5	3.2										7.7	3,3
SE	7.1	2.0										9.7	3.0
SSE	6.5	3.9	3.2									13.5	4.1
5	9.0	11.0	1.3									21.3	3.8
ssw	1.3	. 5	.6									2.6	3.8
sw	.6											.6	2.0
wsw	.6											.6	2.0
w	.6											.6	2.0
WNW	.6											.6	2.0
NW												1	200

TOTAL NUMBER OF OBSERVATIONS

153

2.0

17.4

100.0

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DIRNAVOCEANMET SMOS

NNW

CALM

## SURFACE WINDS

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WINDS

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#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CHASE FIELD, TEXAS 12925 73-77 ALL WEATHER COMPLETION SPEED (KNTS) MEAN WIND SPEED 1 - 3 4 - 6 7 - 10 11 - 16 28 - 33 17 - 21 22 - 27 34 - 40 41 - 47 48 - 55 ≥56 1.3 2.6 1.9 3.7 1.9 3.9 N 7.1 1.9 3.9 NE 8.4 ENE 3.2 1.3 12.9 8,4 4.5 12.9 E ESE . 6 SE 6.5 8.4 1.9 5.2 2.6 8.4 3,4 SSE .6 2.0 5 3.2 5.8 3.0 . 6 . 6 SSW .6 .6 3.0 SW .6 .6 2.0 wsw 1.3 1.3 1.0 W 1.0 WNW NW 1.3 2.0 NNW VARBL 29.0 CALM 45.8 21.9 100.0 2.3

TOTAL NUMBER OF OBSERVATIONS 155

12925 STATION

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CHASE FIELD, TEXAS

STATION NAME

ALL WEATHER

CLASS

CLASS

73-77

VEARS

VEARS

POURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.6				- 8							.6	1.0
NNE	.6	.6										1.3	3.
NE	.6	. 6										1.3	4.
ENE	.6	1.3	1.3	.6								3.9	6.
E	1.9	1.3		.6								3.9	4.
ESE	2.6	1.9	1.9									6,5	5.
SE	.6	1.3	6.5	.6								9.0	8.
SSE	.6	6.5	11.0	5.2								23.2	8.
5	2.6	6.5	13.5	7.7								30.3	8,
ssw	.6	5.2	3.9	.6								10.3	6.
sw		1.9	1.3									3.2	5.
wsw	1.3	.6										1.9	2.
w	. 5											.6	2.
WNW													
NW													
NNW	.6											.6	1.
VARBL													
CALM	$\times$	>	><	> <	> <	$\sim$	> <	> <	$\sim$	$\sim$	> <	3.2	
	14.2	27.7	39.4	15.5								100.0	7.

TOTAL NUMBER OF OBSERVATIONS

155

1888

1880

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SURFACE WINDS JAN

78

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

762	CLIM 3	C LIEP	A I CAD	3			13-1							UL
STATION			STATION	HAME						TEARS	-		-	IONTH
						ALL WI	EATHER							12
		The state of the s				•	LASS						HOURS	(L.S.T.)
						COI	HOITION							
		_									_			
	SPEED					17 - 21								MEAN
	(KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	SPEED
	N	.6	1.3	.6									2.6	4.8
	NNE	.6	1.3										1.9	4.3
	NE		.6	.6									1.3	7.5
	ENE	.6	.6	.6									1.9	5.7
	E	.6	3.2	2.6	.6								7.1	7.0
	ESE	1.3	2.6	3.9	1.3								9.0	6.9
	SE	.6	3.9	7.1	9.0								20.6	9.5
	SSE	1.9	6.5	7.1	5.8								21.3	8.0
	S	3.9	6.5	9.0	1.9								21.3	6.8
	ssw	1.9		.6	.6								3.2	5.8
	sw	.6	.6										1.3	3.5
	wsw	3,9											3.9	2.2

TOTAL NUMBER OF OBSERVATIONS

155

7.0

3.2

100.0

DIRNAVOCEANMET SMOS

27.7

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WNW

NW NNW VARBL

CALM

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77
STATION STATION HARE ALL WEATHER

CLASS

CHASE FIELD, TEXAS 73-77

VEARS

HOURS (LS.T.)

SPEED (KNTS) DIR.	1-3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.6	. 6										1.3	4.0
NNE	.6	.6	1.3									2.6	6,3
NE		.6		.6								1.3	8.5
ENE	.6	1.9	1.9									4.5	6.3
E	1.3	2.6	5.8	1.9								11.6	7.8
ESE	.6	1.3	6.5	6.5								14.8	10.2
SE		5.2	12.9	20.0	•6							38.7	10.5
SSE	1.3	2.6	5.8	3.9								13.5	8.8
\$		1.9	3.9	.6								6.5	8.2
SSW			.6	.6								1.3	10.0
sw	.6											.6	2.0
wsw		. 6										.6	4.0
w													
WNW													
NW													
NNW	.6			.6								1.3	8.0
VARBL													
CALM	><	><	$\times$	><	> <	> <	> <	> <	> <	> <	> <	1.3	
	6.5	18.1	38.7	34.8	•6							100.0	9.1

TOTAL NUMBER OF OBSERVATIONS

155

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SURFACE WINDS JAN 78

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS
STATION

STATION

ALL WEATHER

CLASS

HOURS (L.S.T.)

N NNE	.6	•6										1.3	4.
NE		1.3										1.3	5
ENE	.6	1.9										2.6	5
E	.6	.0	2.6	.6								4.5	8
ESE		1.3	7.1	8.4								16.8	10
SE		1.9	18.7	34.8	•6							56,1	11
SSE		1.3	6.5	5.8								13.5	10
5		1.3		.6								1.9	7
SSW													
sw			•6									.6	10
wsw													
w													
WNW													
NW													
NNW													
VARBL	-												
CALM	$\times$	><	> <	> <	$\times$	> <	> <	> <	$\times$	$\times$	> <	1.3	
	1.9	10.3	35.5	50.3	.6							100.0	10

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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5702 SURFACE WINDS JAN 78

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CHAS	E FIELD	TEXA	S NAME			73-77			rears				UL
	_				ALL WE	ATHER						HOUR	21
	-				con	IDITION				_			
SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	×	MEAN WIND SPEED
N	-												
NNE		- 6								_		.6	6.0
NE		1.3										1.3	6.0 4.5 6.0 4.9
ENE		1.9	•6									2.6	6.0
E	2.6	1.3	2.6									6.5	4.9
ESE	1.9	20.0	3.9									25.8	5.1
SE	2.6	28.4	10.1									47.1	6.0
SSE	2.6	7.7	4.5									14.8	5.0
5													
ssw													
sw													
wsw													
w													
WNW													
NW													
NNW													
VARBL													
CALM	><	><	> <	> <	> <	> <	> <	> <	> <	> <	> <	1.3	
	9.7	61.3	27.7									100.0	5,5

TOTAL NUMBER OF OBSERVATIONS

155

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## SURFACE WINDS

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SURFACE WINDS JAN 78

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#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77
STATION STATION HARE ALL WEATHER ALL HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.5	.4	•1									1.0	4.0
NNE	.7	1.4	.2									2.3	4.5
NE	.5	1.3	.2	.1								2.0	4.8
ENE	2.3	2.0	.7	.1								5.2	4.4
E	3.4	2.3	1.9	.5								8.0	5.0
ESE	2.5	4.5	3.1	2.0								12.1	6.6
SE	3.6	7.2	8.1	8.1	• 2							27.3	8.1
SSE	3.1	4.2	5.3	2.6								15.2	6,9
5	3.3	4.4	3.8	1.4								12.8	6.1
ssw	.6	.7	• 7	.2								2.3	6.1
sw	.3	. 3	. 2									.9	4.8
wsw	.9	.2										1.0	2.5
w	,5											.5	2.0
WNW	.2	• 1										.3	2.3
NW						THE COLUMN							
NNW	.5			.1								.6	3.6
VARBL													
CALM	><	><	> <	> <	><	> <	> <	> <	> <	$\sim$	> <	8.6	
	22.9	28.9	24.4	15.1	.2							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 1240

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

D25 CHASE FIELD, TEXAS 73-77

TATION MARK ALL WEATHER 00

CLASS HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.6											.6	2.0
NNE	1.9	3.2										5.2	3.4
NE	.6	1.9										2.6	4.3
ENE	3.9	1.9		.6								6.5	3.7
E	9.7	3.9	1.3									14.8	3.3
ESE	3.9	5.2		.6								9.7	4.1
SE	11.6	7.7	.6									20.0	3,5
SSE	5.2	5.2		.6								11.0	4.1
5	2.6	1.9	3.2									7.7	5.3
SSW	.6											.6	1.0
sw													
wsw													
w	2,6											2.6	1.5
WNW	1.3											1.3	2.0
NW												1	
NNW													
VARBL													
CALM	$\times$	>	$\times$	$\times$	>	$\times$	$\times$	$\times$	$\times$	$\times$	>	17.4	
	44.5	31.0	5.2	1.9								100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

SURFACE WINDS JAN 78

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELDS TEXAS 73-77

STATION

STATION ANNE

ALL WEATHER

CLASS

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
Ν.	3.9	1.9										5.8	3.0
NNE	1.3	3.2	.6									5.2	4.9
NE	1.3	1.3										2.6	3,3
ENE	3.9	2.6	.0									7.1	3.7
E	7.1	1.3									,	8.4	2.5
ESE	6.5	1.9										8.4	2.5
SE	5.2	1.9	1.9	.6								9.7	4.1
SSE	1.9	1.3	1.3									4.5	4.7
5	5.8	3.2	2.6									11.6	4.1
ssw		.6										.6	6.0
sw	.6											.6	3.0
wsw	.6	1.3										1.9	4.7
w													
WNW	1.3											1.3	2.0
NW	1.9	.6										2.6	2.8
NNW	2.6	.6										3.2	3.0
VARBL													
CALM	$\sim$	><	><	$\times$	> <	$\sim$	><	> <	> <	$\sim$	> <	26.5	
	43.9	21.9	7.1	.6								100.0	2.6

TOTAL NUMBER OF OBSERVATIONS

155

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SURFACE WINDS JAN

78

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

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HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	4.5	3,9	1.3									9.7	3.6
NNE	3.9	7.1										11.0	4.
NE	3.2	3,9	.6									7.7	3.1
ENE	7.1	4.5										11.6	3.4
E	11.0	1.3										12.3	2.
ESE	5.2											5.2	2.4
SE	4.5		,6									5.2	3.0
SSE	3.9	.6	.6									5.2	3.
5	1.3	1.9	.6									3.9	4.
ssw		1.3										1.3	4.1
sw													
wsw	.6											.6	3.0
w	1.3											1,3	2.0
WNW	.6											.6	3.
NW	1.3	.6										1.9	3.
NNW	3.2		1									3.2	2.
VARBL													
CALM	$\sim$	><	> <	$\times$	$\times$	> <	$\times$	$\times$	> <	$\sim$	> <	19.4	
	51.6	25.2	3.9									100.0	2.

TOTAL NUMBER OF OBSERVATIONS

155

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SURFACE WINDS JAN

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

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2925 STATION	CHASE FIELD, TEXAS	73-77	AUG
SIATION	214104 441	ALL WEATHER	09
		CLASS	HOURS (L.S.T.)
		CONDITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3	1.3	1.9									4.5	5.0
NNE	3.9	1.9	1.3									7.1	4.2
NE	.6	4.5	3.9									9.0	6.2
ENE	.6	.6										1.3	3,5
E	1.3	5.2										6,5	4.3
ESE	.6	1.3	1.9	.6								4.5	6.4
SE	.6	1.3	3,2						1.0			5.2	6.1
SSE	1.3	.6	5.8	2.6								10.3	8.8
5	1.3	8.4	15.5	5.8								31.0	8.3
ssw		3.2	1.9									5.2	6.5
sw	1.3	.6	1.3									3.2	5.4
wsw	1.3	. 6										1.9	3.0
w	.6											.6	2.0
WNW												1	
NW	.6	.6										1.3	4.0
NNW	•	1.3										1.3	5.0
VARBL												1	
CALM	$\sim$	>	>	>	> <	><	><	$\sim$	$\sim$	$\sim$	X	7.1	
	15.5	31.0	36.8	9.0								100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

155

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

78

2925 STATION	CHASE FIELD, TEXAS	73-77 YEARS	AUG MONTH
		ALL WEATHER	12
		CLASS	HOURS (L.S.T.)
	-	CONDITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.9	1.3										3.2	3.4
NNE	.6	1.9	1.9									4.5	6.0
NE	1.9	1.9		1.3								5.2	6.3
ENE	1.9	3.2	3.2									8.4	5.9
E		2.6	2.6									5.2	6.8
ESE	1.3	2.6	3.9	.6								8.4	6.6
SE	1,3	3.9	3.9	1.9								11.0	7.9
SSE	1.3	8,4	3.9	4.5								19.1	7.8
5	.6	6.5	10.3	2.6								20.0	8.1
ssw		. 0	1.3									1.9	6.0
sw			•6									.6	7.0
wsw	1.3	1.3										2.6	3.5
w	1.3	.0	.6									2.6	4.0
WNW	.6											.6	3.0
NW													
NNW	.6											.6	1.0
VARBL													
CALM	$\times$	><	><	><	> <	> <	$\times$	> <	><	$\sim$	> <	7.1	
	14.8	34.8	32.3	11.0								100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

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## SURFACE WINDS

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SURFACE WINDS

**JAN 78** 

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155

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CONDITION

12925 CHASE FIELD, TEXAS 73-77
STATION STATION HAME ALL WEATHER 15
CLASS HOURS (L.S.T.)

CALM	9.0		38.7	27.1								100.0	8.
VARBL						<		-			<	2.6	
NNW				.6								.6	14
NW	.6											.6	2
WNW													
w				.6								.6	14
wsw	.6					,						.6	3
sw													
ssw		/	1.3									1.3	8
5	1.3	1.9										3,2	4
SSE	.6	1.9	6.5	7.7								16.8	10
SE	.6	1.9	10.3	9.0	• 6							22.6	10
ESE	1.00	6.5	9.7	5.2								21.3	8
E	1.3	5.8	3.2	1.3								11.6	6
NE ENE	.6	1.3	5.8	1.3								9.7	8
NNE	1.3	1 3	1.9	.6								1.9	6
N	1,9											1.9	2
SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEA WIN SPEE

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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CHASE	FIELD	STATION	HAME			73-77			YEARS				UG
					ALL WI	EATHER							18
	-					LASS						HOUR	5 (L.S.T.
	_				cor	IDITION							
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	×	MEA WIN SPEE
N		1.3										1.3	5
NNE		.6	.6									1.3	6
NE													
ENE	. 6	1.9	1.9									4.5	5
E	,6	5.2	3.2	3.9								12.9	8
ESE	.6	3.2	5.8	9.0								18.7	9
SE	.6	3,9	17.4	23.2								45.2	10
SSE	.6	2.6	2.6	4.5								10.3	8
5		1.3	.6									1.9	6
SSW													
SSW SW													

100.0 TOTAL NUMBER OF OBSERVATIONS

155 4110

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5.0

9.1

3.2

DIRNAVOCEANMET SMOS

WNW

NW

NNW VARBL . 6

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

CLASS

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N													
NNE	.6	.6										1.3	4.
NE	1,3	.6										1.9	3.3
ENE	3.2	3.2	1.9									8.4	4.7
E	3.9	3.9	1.3									9.0	4.3
ESE	7.7	10.3	3.2									21.3	4.6
SE	5,8	21.3	12.3									39.4	5.1
SSE	5.8	4.5	2.6									12.9	4.5
\$	1.3											1.3	2.0
SSW													
sw	.6											.6	2.0
wsw													
w													
WNW													
NW	.6	-	.6									1.3	5.0
NNW		.6										.6	6.0
VARBL													
CALM	><	><	><	><	><	$>\!\!<$	$\times$	><	><	><	><	1.9	
	31.0	45.2	21.9									100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

155

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5702 SURFACE WINDS JAN

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION NAME

ALL WEATHER

CLASS

ALL WEATHER

HOUSE (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	×	MEAN WIND SPEED
N	1.8	1.2	.4									3.4	3.
NNE	1.7	2.4	. 8	• 1								5.0	4.
NE	1.1	1.9	.6	.2								3.9	5.
ENE	2.7	2.5	1.7	.2								7.2	5.
E	4.4	3.0	1.5	.6								10.1	4.
ESE	3.2	3.9	3.1	2.0								12.2	6.
SE	3.8	5.2	6.3	4.4	• •1							19.8	7.
SSE	2.6	3.1	2.9	2.5								11.1	7.
5	1.8	3.1	4.1	1.0								10.1	6.
ssw	.1	.7	.6									1.4	5.
sw	.3	• 1	.2									.6	4.
wsw	.6	.4										1.0	3,
w	.7	.1	• 1	.1								1.0	3,
WNW	.5											.5	2.
NW	,6	. 3	•1									1.0	3.
NNW	.8	.3		.1								1.2	3.
VARBL													
CALM	><	><	> <	$>\!\!<$	> <	><	> <	> <	> <	><	> <	10.6	
	26.7	29.0	22.3	11.3	•1							100.0	5.

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

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SURFACE WINDS JAN

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73=77

STATION

ALL WEATHER

CLASS

SEP

MONTH

OO

NOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		6.0	2.0	.7								8.7	6.6
NNE	3.3	4.0	1.3									8.7	4.5
NE	1.3	2.0	2.0	.7								6.0	6.0
ENE	2.0	3.3	.7									6.0	4.2
E	14.0	2.0	2.0									18.0	3.4
ESE	7.3	1.3										8.7	2.7
SE	5.3	3.3	2.0									10.7	3.9
SSE	3.3	1.3										4.7	3.4
3	.7	2.0	3.3									6.0	6.2
ssw		.7										.7	6.0
sw	.7	-										.7	2.0
wsw	.7											.7	2.0
w													
WNW	2.7		.7									3.3	3.2
NW	2.0	1.3		.7								4.0	4.8
NNW	1.3	1.3										2.7	4.0
VARBL													
CALM	$\sim$	>	>	>	X	><	>	>	$\sim$	$\times$	X	10.7	
	44.7	28.7	14.0	2.0								100.0	3,8

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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5702 SURFACE WINDS JAN

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12925	CHASE FIELD, TEXAS	73-77		SEP
STATION	STATION HAME		YEARS	MONTH
		ALL WEATHER		03
		CLASS		HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	2.7	4.7	2.7	.7								10.7	5.6
NNE	2.0	4.0	2.0									8.0	5.0
NE	4.7	4.0	1.3	.7								10.7	4.6
ENE	1.3	3.3										4.7	4.3
E	5,3	3.3										8.7	2.8
ESE	6.0											6.0	2.1
SE	4.7	.7	.7									6.0	2.8
SSE	3,3	1.3										4.7	3.0
5	3.3	4.0										7.3	3.7
SSW	.7											.7	3.0
sw													
wsw													
w	2.7			.7								3.3	4.2
WNW	2.0	.7										2.7	2.6
NW	2.7	• 7	THE STATE OF	1.3								4.7	5.7
NNW	2.0	3.3	•7									6.0	4.9
VARBL													
CALM	$\times$	><	><	>	$\times$	$\sim$	> <	$\sim$	$\sim$	$\sim$	>	16.0	
	43.3	30.0	7.3	3.3								100.0	3,4

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77
SEP
STATION NAME
ALL WEATHER
O6
CLASS
HOURS (LS.T.)

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	3,3	4.7	4.0	1.3	.7							14.0	6.5
NNE	2.0	6.0	2.7	1.3								12.0	5.9
NE	1,3	6.0	.7									8.0	4.8
ENE	8.0	3.3	1.3									12.7	3.4
E	6.0	.7	.7									7.3	2.9
ESE	2.7	.7										3.3	3.0
SE	3.3	1.3										4.7	2.7
SSE	2.0											2.0	2.0
\$	.7	3.3										4.0	3.7
ssw	1.3											1.3	2.0
sw				6									
wsw			• 7									.7	8.0
w	.7	1.3										2.0	4.7
WNW													
NW	2.0	• 7	.7									3.3	4.0
NNW	.7	5.3	2.7		.7							9.3	7.1
VARBL													
CALM	><	><	><	$>\!\!<$	><	> <	> <	><	$\sim$	$\sim$	> <	15.3	
1	34.0	33.3	13.3	2.7	1.3							100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

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SURFACE WINDS JAN

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# SURFACE WINDS

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SURFACE WINDS JAN

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#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

COMPLTION

12925 CHASE FIELD, TFXAS 73-77
SEP
STATION ARE
ALL WEATHER
OP
CLASS
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	2.0	2.0	1.3	5.4								10.7	8.
NNE	1.3	2.0	6.0	2.0								11.4	8.
NE	1,3	5.4	4.0									10.7	6.
ENE	1.3	2.7	1.3	.7								6.0	5.
E	4.0	4.7										8.7	3.
ESE	.7	1.3	1.3									3.4	5,
SE	1.3	1.3										2.7	3,
SSE	2.0	4.0	2.7	1.3								10.1	6.
\$	1.3	2.0	6.7	4.7								14.8	9,
SSW	.7	1.3	1.3									3.4	6.
sw													
wsw		.7		.7								1.3	9.
w	2.0		.7									2.7	3,
WNW		.7	.7									1.3	6.
NW			• 7									.7	8.
NNW		3.4	.7	.7	• 7							5.4	8.
VARBL													
CALM	><	><	><	><	> <	> <	> <	> <	> <	$\sim$	> <	6.7	
	18.1	31.5	27.5	15.4	•7							100.0	6.

TOTAL NUMBER OF OBSERVATIONS 149

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

78

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12925 CHASE FIELD, TEXAS 73-77
SEP
STATION

ALL WEATHER
12
COMBITION

COMBITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3	2.0	5.3	2.0								10.7	8.4
NNE	.7	3.3	2.7	2.7								9.3	7.8
NE	.7	3.3	3.3	1.3								8.7	7.5
ENE		3.3	2.0									5.3	6.4
E	2.0	2.0	2.0	.7								6.7	5.7
ESE		2.7	2.7	.7								6.0	7.2
SE	,7	2.0	1.3	1.3								5.3	7.1
SSE	1.3	4.0	6.7	3.3								15.3	7,9
\$	1.3	2.7	6.0	2.0								12.0	7.6
SSW	2,0	1.3	2.0									5.3	5.0
sw	.7		.7	.7								2.0	7.7
wsw													
w				•7								.7	11.0
WNW	.7		•7									1.3	6.0
NW		• 7	.7		• 7							2.0	11.3
NNW		.7	.7	3.3								4.7	11.6
VARBL													
CALM	><	><	> <	$>\!<$	> <	> <	> <	> <	> <	$\sim$	> <	4.7	
	11.3	28.0	36.7	18.7	•7							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

150

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77
STATION STATION MARK

ALL WEATHER

CLASS

CLASS

CLASS

CHASE FIELD, TEXAS

SEP

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.7	.7	3.3	2.7								7.3	9.2
NNE	.7	3.3	2.7	1.3								8.0	7.0
NE		.7	3.3	1.3								5.3	9.1
ENE		2.7	• 7	.7	.7							4.7	8.7
E	1.3	5.3	5.3	.7								12.7	6,6
ESE	.7	4.0	1.3	2.7								8.7	7.3
SE	.7	4.0	8.0	8.0								20.7	8.8
SSE	.7	3.3	5.3	4.7								14.0	9.1
\$	2.7	.7	1.3									4.7	4.0
ssw													
sw		.7		.7								1.3	9.5
wsw													
w			•7									.7	7.0
WNW	×	1.3										1.3	5.5
NW	.7	.7	2.0									3.3	5.8
NNW		.7	2.0	2.7								5,3	11.3
VARBL													
CALM	> <	> <	$\times$	> <	$\times$	$\times$	> <	> <	> <	><	> <	2.0	
	8.0	28.0	36.0	25.3	• 7							100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

150

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5702 SURFACE WINDS JAN

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SURFACE WINDS

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#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77 SEP

STATION NAME

ALL WEATHER

CLASS

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 49	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.7	4.0	1.3	2.7								8.7	7.
NNE		4.0	1.3	.7								6.0	6.
NE		3.3	2.0	.7								6.0	6.
ENE	1.3	2.7	1.3									5.3	5,
E	.7	3.3	5.3	.7								10.0	7.
ESE		6.0	13.3	2.7								22.0	8.
SE	.7	5.3	12.7	9.3								28.0	9.
SSE		1.3	2.7	2.0								6.0	9.
\$	.7											.7	3.0
SSW			.7									.7	9.0
sw	1.3											1.3	1.0
wsw	.7		10-									.7	2.0
w			.7									.7	10.0
WNW	.7											.7	2.
NW				.7								.7	11.0
MMM			2.0		.7							2.7	10.
VARBL													
CALM	> <	><	> <	><	> <	><	> <	><	><	><	> <	.0	
	6.7	30.0	43.3	19.3	•7							100.0	8.

TOTAL NUMBER OF OBSERVATIONS

150

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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5702 SURFACE WINDS JAN

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CHASE FIELD,	I E X A S	73-77		SEP
	STATION NAME		YEARS	MONTH
		ALL WEATHER		21
		CLASS		HOURS (L.S.T.)
		CONDITION		
-			ALL WEATHER CLASS	STATION HAME  ALL WEATHER  CLASS

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		2.0	4.7	.7								7.3	7.8
NNE	2.0	4.0	• 7									6.7	4.6
NE	1.3	2.7	.7	1.3	• 7							6.7	7.
ENE	1.3	3.3										4.7	4.
E	7.3	9.3	.7									17.3	3.
ESE	8.0	8.7	2.0									18.7	4.
SE	4.0	11.3	4.0									19.3	4.
SSE	2.7	2.7	2.0	.7								8.0	5.
5	2.0											2.0	2.
ssw		.7										.7	6.
sw													
wsw													
w													
WNW													
NW	.7.		1.3									2.0	5.
NNW	.7	.7										1.3	4.
VARBL			1			7							
CALM	$\times$	>	><	$\sim$	>	> <	$\sim$	$\sim$	$\sim$	$\sim$	>	5.3	
	30.0	45.3	16.0	2.7	.7							100.0	4.

TOTAL NUMBER OF OBSERVATIONS

150

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS

SEP

STATION

ALL WEATHER

CONDITION

CONDITION

SEP

MORTH

ALL

MOURE (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3	3.3	3.1	2.0	•1							9.8	7.5
NNE	1.5	3.8	2.4	1.0								8.8	6.3
NE	1.3	3.4	2.2	. 8	•1							7.8	6.3
ENE	1.9	3.1	.9	.2	•1							6.2	4.9
E	5.1	3.0	2.0	.3								11.2	4.5
ESE	3.2	3.1	2.6	. 8								9.6	5.6
SE	2.6	3.7	3.6	2.3								12.2	6.7
SSE	1.9	2.5	2.4	1.5								3.1	6.9
3	1.6	1.8	2.2	.8	4							6.4	6.4
ssw	.6	.5	.5									1.6	5.3
sw	.3	.1	•1	.2					10-			.7	5.8
wsw	.2	.1	• 1	.1								.4	6.0
w	.7	.2	.3	.2								1.3	5.1
WNW	. 8	. 3	.3									1.3	4.1
NW	1.0	.5	.7	.3	•1							2.6	6.1
NNW	.6	1.9	1.1	.8	.3							4.7	8.0
VARBL													
CALM	$\times$	><	><	><	><	> <	><	><	><	><	> <	7.6	
	24.5	31.9	24.3	11.2	.6							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

1199

5702 SURFACE WINDS JAN 78

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

58 M

5702 SURFACE WINDS JAN 78

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2925	CHASE FIELD, TEXAS	73-77	OCT
STATION	STATION HAME	YEARS	MONTH
		ALL WEATHER	00
		CLASS	HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.6	1.3	4.5	1.3	.6							8.4	9.0
NNE	1.3	1.9	2.0									5.8	5.9
NE	.6	5.2		1.3								7.1	6.4
ENE	3.2	4.5	1.3									9.0	4.6
E	7,1	.6	1.3									9.0	3.6
ESE	11,0	1.3										12.3	2.4
SE	3,2	1.9	.6	1.3								7.1	5.4
SSE	3,2	1.9	1.3									6.5	4.2
\$			1.3									1.3	8.0
SSW	1.9											1.9	2.0
sw	.6											.6	2.0
wsw													
w		. 6										.6	6.0
WNW	1.9											1.9	2.0
NW	3.2	. 6										3.9	2.5
NNW	1.3	1.3	.6	.6								3.9	5.8
VARBL													
CALM	><	><	$\times$	><	><	><	><	><	><	><	> <	20.6	
	39.4	21.3	13.5	4.5	.6							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

155

148

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CONDITION

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

O3

CLASS

NOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3	5.8	3.9	2.6								13.5	7.3
NNE	1.9	4.5	1.9									8.4	5.5
NE	1.9	5.8		1.3								9.0	6.0
ENE	1.9	2.6	1.3									5.8	5.0
E	7.1	.6										7.7	2.4
ESE	5.2	. 6	.6									6.5	3.0
SE	1.3		1.3									2.6	5.8
SSE	.6	. 6	.6	.6								2.6	6.8
\$	.6	1.3	1.3									3.2	5.4
35W	.6	.6										1.3	3,5
sw													
wsw	.6											.6	2.0
w		.6										.6	4.0
WNW	2.6	.6										3.2	2.4
NW	4,5											4.5	2,3
NNW	4.5	1.9										6.5	3.0
VARBL													
CALM	><	><	><	><	> <	><	> <	><	> <	><	> <	23.9	
	34.8	25.6	11.0	4.5								100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

155

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SURFACE WINDS JAN

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# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN 78

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12925	CHASE FIELD, TEXAS	73-77	OCT
STATION	STATION HAME	YEARS	MONTH
		ALL WEATHER	06
		CLASS	HOURS (L.S.T.)

NDITION

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	5.8	6.5	1.9	1.9								16.1	5.2
NNE	3.2	7.7	.6	.6								12.3	4.8
NE	2.6	5.2	.6	1.3								9.7	5.7
ENE	3.9	3.9	1.3									9.0	3.9
E	2.6	•6	.6									3.9	3.7
ESE	1.9	• 6	1.3									3.9	5.0
SE	1.9	1.9		.6								4.5	5.1
SSE	.6		.6									1.3	6.0
5	1.9	. 6										2.6	2.5
ssw													
sw							,						
wsw	.6											.6	2.0
w	.6											.6	2.0
WNW	1.9		1.3									3.2	4.6
NW	7.1	1.3										8.4	2.6
NNW	2.6	3.9	1.9	.6								9.0	5.4
VARBL													
CALM	$\sim$	>	>	><	$\times$	>	>	>	$\sim$	$\sim$	> <	14.8	
	37.4	32.3	10.3	5.2								100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

155

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# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

O9

CLASS

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3	.6	6.5	1.3		.6						10.3	8.9
NNE	3.9	3.9	3.9	1.9	•6							14.2	7.1
NE	1.3	2.0	4.5	1.3								9.7	7.3
ENE	1.9	3.9	4.5	.6								11.0	6.3
E	2.6	1.3										3.9	3.3
ESE	1.3	3.2	1.3									5.8	4.5
SE	2.6	2.6	3.9	.6								9.7	6.2
SSE	1.9	3.2	•6	2.6								8.4	7.
5	1.3	1.9	1.3	.6								5.2	6.3
ssw		.6	.6									1.3	.8.
sw	.6	.6	.6									1.9	4.
wsw	.6											.6	3.0
w	1.3	. 6	.6									2.6	4.3
WNW	1.3	1.3										2.6	3.0
NW	.5			1.3								1.9	9.1
NNW	1.3	2.6	1.3	1.9								7.1	7.4
VARBL													
CALM	><	><	> <	><	><	><	> <	> <	> <	$\sim$	> <	3.9	
	23.9	29.0	29.7	12.3	•6	•6						100.0	6.

TOTAL NUMBER OF OBSERVATIONS

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#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

CLASS

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SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		3.2	3.9	3.2	•6							11.0	9.5
NNE	1.9	.6	3.2	2.6								8.4	7.8
NE		. 6	1.9	.6								3.2	8.4
ENE	. 6	3.2	1.3	1.3								6.5	6.9
E	.6	4.5	1.9									7.1	5.8
ESE	.6	2.6	4.5	.6								8.4	7.9
SE	.5	3.9	4.5	3.9	.6							13.5	8,9
SSE	1.3	3.9	3.2	4.5								12.9	8.4
5	1.9	2.0	3.9	1.9								10.3	7.1
SSW	1.3											1.3	2.0
sw		. 6										.6	5.0
wsw	.6	.6										1.3	3,5
w		. 5	.6									1.3	6.5
WHW													
NW	.6	. 6										1.3	4.5
MMM		2.0	1.3	1.9	1.3							7.1	10.2
VARBL													
CALM	><	><	$>\!\!<$	><	$>\!\!<$	><	$\times$	><	> <	><	><	5,8	
	10.3	30.3	30.3	20.6	2.6							100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 155

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION NAME

ALL WEATHER

CLASS

	7.7	27.7	36.8	20.0	1.3	. 6						100.0	7.
CALM	><	><	><	><	><	><	><	><	><	><	><	5.8	
VARBL													
NNW			1.9	.6								2.6	9,
NW			• 6									.6	7.
WNW													•
w	.6	5	.6									1.9	5.
wsw													
sw	.6											.6	2.
ssw													
5	2.5		.6	.6								3.9	4.
SSE	.6	1.9	3.9	1.9								8.4	8.
SE	.6	1.9	8.4	5.2	•6							16.8	10.
ESE		5.8	7.7	3.9								17.4	8,
E		8.4	2.6	1.3								12.3	6.
ENE	.6	1.9										2.6	4.
NE		2.6	1.3		• 6							4.5	8.
NNE	.6	2.6	4.5	2.6								10.3	8.
N	1.3	1.9	4.5	3.9		.6						12.3	9.
SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED

TOTAL NUMBER OF OBSERVATIONS

155

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### SURFACE WINDS

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5702 SURFACE WINDS JAN 78

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS

STATION

ALL WEATHER

CLASS

CONDITION

CONDITION

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		1.9	3,9	1.3	•6							7.7	9.1
NNE	3,2	6,5	1.9									11.6	5.1
NE	.6	1.9	.6	.6								3.9	6.5
ENE	.6	1.9	1.3									3.9	5.5
E	3.2	4.5	2.6	.6								11.0	5.4
ESE	1,3	7.1	6.5	1.3								16.1	6.7
SE	1,3	11.0	16.8	4.5								33.5	7.7
SSE	1.3	1.3	.6	1.9								5.2	7,8
3	.6											.6	2.0
SSW													
sw	.6											.6	2.0
wsw													
W	.6											.6	3.0
WNW												.6	6.0
NW													
NNW	.6	1.3										1.9	4.3
VARBL													
CALM	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	><	><	><	2.6	
	14.2	38.1	34.2	10.3	• 6							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

155

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION STATION HARE

ALL WEATHER

CLASS

CLASS

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HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.6	1.3	5.2	.6	•6							8.4	8.2
NNE	1.9	• 6	1.3	1.3								5.2	7.1
NE		4.5	. 6	.6								5.8	6.2
ENE	2.6	4.5	1.9						7			9.0	4.9
E	6.5	8.4	.6	.6								16.1	4.0
ESE	5.2	8.4	.6									14.2	4.0
SE	7.1	6.5	3.2	1.3								18.1	5.2
SSE	3.9		2.6	.6								7.1	5.5
5	1.9											1.9	2.7
SSW			.6									.6	7.0
sw	.6											.6	2.0
wsw													
w													
WNW													
NW		.6										.6	5.0
NNW	. 5	1.3	.6									2.6	4.5
VARBL													
CALM	><	><	><	><	><	> <	> <	> <	> <	$\sim$	> <	9.7	
	31.0	36.1	17.4	5.2	.6							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

55

0

5702

SURFACE WINDS JAN

78

0

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### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

8082

5702

SURFACE WINDS JAN

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CHASE FIELD, TEXAS 12925 STATION 73-77 WEATHER

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.4	2.5	4.3	2.0	• 3	•2						11.0	8.1
NNE	2.3	3.5	2.5	1.1	•1							9.5	6.4
NE	.9	3.5	1.2	.9	•1							6.6	. 6.6
ENE	1.9	3. 5	1.0	.2								7.1	5.2
E	3.7	3.6	1.2	.3								8.9	4.5
ESE	3,3	3.7	2.8	.7								10,6	5.6
SE	2.3	3.7	4.8	2.2	.2							13.2	7.4
SSE	1.7	1.0	1.7	1.5								6.5	7.2
5	1.4	. 8	1.0	.4								3,6	5.7
ssw	.5	. 2	•2									.8	4.0
sw	.4	. 2	•1									.6	3.3
wsw	.3	.1										.4	2.8
w	.4	.4	.2									1.0	4.8
WNW	1.0	. 3	.2									1.5	3,4
NW	2.0	.4	•1	.2								2.7	3.5
NNW	1.4	1.9	1.0	.7	• 2							5.1	6.4
VARBL													
CALM	><	> <	$\times$	> <	$\times$	><	><	><	><	><	> <	10.9	
	24.8	30.1	22.9	10.3	8.	•2						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

1240

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1881

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5702

SURFACE WINDS

JAN 78

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12925	CHASE FIELD, TEXAS	73-77	NDV
STATION	STATION NAME	YEARS	MONTH
		ALL WEATHER	00
		CLASS	HOURS (L.S.T.)
		CONDITION	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	2,7	4.7	4.0	1.3	.7							13.3	7.3
NNE	1.3	4.0	1.3									6.7	5,4
NE	.7	1.3										2.0	4.0
ENE	.7	3.3										4.0	4.2
E	4.7	2.0										6.7	2.8
ESE	4.0	3.3										7.3	3.9
SE	6.7	2.7	2.0	.7								12.0	4.3
SSE	2.7	4.0	1.3	3.3								11.3	6.8
5	3.3	.7	2.0									6.0	4.4
ssw	.7											.7	3.0
sw		.7										.7	6.0
wsw													
w	.7											.7	2.0
WNW	.7											.7	2.0
NW	4.0	.7	1.3									6.0	3.8
NNW	2.7	3,3	2.0	1.3								9.3	6.1
VARBL													
CALM	> <	> <	><	> <	> <	> <	> <	> <	> <	$\times$	> <	12.7	
	35.3	30.7	14.0	6.7	.7							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 150

### SURFACE WINDS

1100

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SURFACE WINDS JAN

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#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77
STATION

ALL WEATHER

CLASS

CLASS

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NOUNS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3	6.7	2.0	.7	1.3							12.0	7.1
NNE	4.0	2.7	2.7	1.3								10.7	5.6
NE	.7	2.7	1.3									4.7	5.3
ENE	2.0	2.0										4.0	3,7
E	4.7	2.0	.7									7.3	3,5
ESE	.7		1.3									2.0	6.3
SE	2.7	3.3	.7	.7								7.3	4.4
SSE	1.3	4.0	.7	1.3	•7							8.0	7.3
S	1.3	1.3	1.3									4.0	5.5
SSW	.7	.7										1.3	3,5
sw													
wsw													
w													
WNW	3,3	1.3										4.7	3.0
NW	6.0	2.7										8.7	2.7
MNW	3.3	2.7	2.0	1.3								9.3	6.4
VARBL													
CALM	><	><	><	><	><	> <	$>\!\!<$	> <	> <	><	> <	16.0	
	32.0	32.0	12.7	5.3	2.0							100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 150

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

CLASS

O

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.7	3.3	4.7	4.0								12.7	8.9
NNE	3.3	4.0	2.7	2.0								12.0	6.4
NE	2.7	5.3										8.0	3.9
ENE	2.7	3.3										6.0	3.7
E	1.3	2.0	.7									4.0	5.2
ESE	,7	2.0										2.7	4.0
. SE	1.3	4.7	1.3									7.3	4.9
SSE	2.7	1.3	1.3	. 7								6.0	5.9
\$	1.3	1.3										2.7	3,3
SSW	1.3		• 7									2.0	3.
sw													
wsw													
w													
WNW	1.3	.7										2.0	3,3
NW	6.0	2.7										8.7	3.0
NNW	5.3	2.0	2.0	.7	.7							10.7	5,
VARBL													
CALM	><	><	><	><	> <	><	><	><	><	><	> <	15.3	
	30.7	32.7	13.3	7.3	•7							100.0	4.

TOTAL NUMBER OF OBSERVATIONS

150

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SURFACE WINDS JAN

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CHASE FIELD, TEXAS

### SURFACE WINDS

NOV

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77

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	_				CON	DITION				_			
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	×	MEAN WIND SPEED
N	2,0	2.7	4.7	6.0	2.0	.7						18.0	10.
NNE	.7	2.0	4.0	2.7	.7							10.0	9.
NE	1.3	2.7	4.0									8.0	5.
ENE	3.3	2.0	2.7									8.0	5,
E	.7	.7	1.3									2.7	5.
ESE		2.7	1.3									4.0	5.
SE	2.7	3.3	2.7	.7								9.3	6.
SSE	1.3	2.7	3.3		1.3							8.7	7.
5	1.3	1.3	4.0	.7								7.3	6.
SSW	.7	5.0										2.7	4,
SW	,7											.7	1.
wsw	.7		.7									1.3	5,
- 19													
Ne v	.7		1.3									2.0	6.
Ne	1,3	1.3	1.3	.7								4.7	6.
NNW	.7	2.0	2.7	1.3								6.7	8,
VARBL													
CALM		~	>	<b>X</b>	>	<b>X</b>	><			<b>\</b>	<b>\</b>	6.0	

TOTAL NUMBER OF OBSERVATIONS

100.0

150

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DIRNAVOCEANMET SMOS

18.0 25.3 34.0 12.0

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77 NOV
STATION STATION HABE ALL WEATHER 12
CLASS HOUSE (LET.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.7	4.0	5.3	3.3	2.0							15.3	10.1
NNE	.7	2.7	2.7	2.0	• 7							8.7	9.0
NE	.7	2.0	.7	1.3								4.7	7.0
ENE		.7	1.3	.7								2.7	8.3
E	.7	2.0										2.7	4.0
ESE		. 7	2.0									2.7	8.3
SE	.7		2.0	5.3								8.0	11.4
SSE		2.7	5.0	4.0	.7							13.3	9.9
5	1.3	4.0	6.0	4.7	• 7							16.7	8.9
SSW	.7											.7	3.0
sw		1.3	.7									2.0	7.0
wsw			• 7									.7	7.0
w	2.0	2.0	.7									4.7	3,9
WNW	.7	.7	• 7									2.0	6.0
NW		• 7	.7									1.3	5.5
NNW	.7	.7	4.0	4.0	.7							10.0	11.2
VARBL													
CALM	><	><	><	><	><	><	><	><	><	><	> <	4.0	
	8.7	24.0	33.3	25.3	4.7							100.0	8.6

TOTAL NUMBER OF OBSERVATIONS

150

1861

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SURFACE WINDS

JAN 78

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### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

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CHASE FIELD, TEXAS	73-77	NOV
STATION NAME	YEARS	MONTH
	ALL WEATHER	15
	CLASS	HOURS (L.S.T.)
	COMPLITION	
	CHASE FIELD, TEXAS	STATION NAME  ALL WEATHER  CLASS

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.7	1.3	3.3	5.3	2.0							12.7	11.
NNE	.7	3.3	2.7	1.3								8.0	7.
NE		2.0										2.0	5.
ENE	.7	.7	2.0									3,3	7.
E	.7	1.3	2.7									4.7	6,
ESE		2.0	3.3	1.3								6.7	8.
SE			5.3	6.0	1.3							12.7	12.
SSE	.7	2.7	4.7	4.7	.7							13.3	9.
5	2.0	2.0	4.0	2.7								10.7	7.
ssw	1,3			.7								2.0	5.
sw		.7	.7									1.3	7.
wsw		1.3	.7									2.0	5.
w				.7								.7	12.
WWW	.7	.7		.7								2.0	6.
NW	.7	1.3		1.3								3,3	8,
NNW	2.0	3.3	4.0	3.3	• 7							13.3	8.
VARBL													
CALM	$\times$	><	> <	> <	><	> <	> <	> <	$\sim$	$\sim$	> <	1.3	
	10.0	22.7	33.3	28.0	4.7							100.0	8.

TOTAL NUMBER OF OBSERVATIONS

150

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### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

6563

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SURFACE WINDS

JAN 78

988

12925	CHASE FIELD, TEXAS	73-77	NOV
STATION	STATION NAME	YEARS	MONTH
		ALL WEATHER	18
		CLASS	HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	3.3	7.3	2.7	3.3	.7							17.3	7.
NNE	2.0	4.0										6.0	4.
NE	1.3	2.0										3.3	3.
ENE	1.3	2.0	.7									4.0	4,
E	2.7	4.7										7.3	4.
ESE	.7	6.0	1.3									8.0	5.
SE	2.7	16.0	12.0	2.0								32.7	6.
SSE		2.0	2.0	.7	.7							5,3	8.
S	.7	.7										1.3	3.
ssw													
sw													
wsw													
w	.7											.7	3.
WNW	.7											.7	2.
NW	2.0	•7										2.7	3.
NNW	.7	2.7	2.0									5.3	6.
VARBL								- 4					
CALM	><	><	><	><	> <	> <	><	><	> <	$\times$	> <	5,3	
	18.7	48.0	20.7	6.0	1.3							100.0	5.

TOTAL NUMBER OF OBSERVATIONS 150

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

16963	CHASE LIEPDY LEXUS	13-11		NUV
STATION	STATION HAME		YEARS	MTHOM
		ALL WEATHER		21
		CLASS		HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	×	MEAN WIND SPEED
N	2.7	3,3	4.0	1.3								11.3	6.5
NNE	1.3	2.0	2.7	1.3								7.3	7.0
NE	1.3	2.7	.7									4.7	4.
ENE	2.7	2.0	• 7									5.3	3.
E	5.3	3.3	.7									9.3	3.
ESE	8.7	4.0	2.7									15.3	3.
SE	2.7	8.0	2.7	.7								14.0	5.
SSE	2.7	2.7	2.7	2.7								10.7	7.
5	.7	1.3		.7								2.7	5.
ssw													
sw													
wsw													
w	.7	.7										1.3	4.
WNW	1.3											1.3	1.
NW	1.3		.7									2.0	4.
NNW	.7	4.7	.7	.7	.7							7.3	7.
VARBL													
CALM	><	> <	$\times$	> <	> <	>	> <	><	> <	$\times$	> <	7.3	
	32.0	34.7	18.0	7.3	•7							100.0	4.

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

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### SURFACE WINDS

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SURFACE WINDS JAN

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#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77 NOV
STATION STATION HAME ALL WEATHER ALL
CLASS HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.7	4.2	3.8	3.2	1.1	• 1						14.1	8.7
NNE	1.7	3.1	2.3	1.3	• 2							8.7	7.0
NE	1.1	2.6	. 8	.2								4.7	5.1
ENE	1.7	2.0	.9	.1								4.7	4.8
E	2.6	2.2	.7									5.6	4.1
ESE	1.8	2.6	1.5	.2								6.1	5.3
SE	2.4	4.7	3.6	2.0	• 2							12.9	6.9
SSE	1.4	2.7	2.7	2.2	• 5							9.6	8.1
5	1.5	1.6	2.2	1.1	•1							5.4	6,9
ssw	.7	. 3	•1	.1								1.2	3.9
sw	.1	.3	.2									.6	6.1
wsw	.1	.2	.2									.5	5.3
w	.5	.3	.1	.1								1.0	4.3
WNW	1.2	.4	.2	.1								1.9	4.0
NW	2.7	1.2	.5	.2								4.7	4.1
NNW	2.0	2.7	2.4	1.6	• 3							9.0	7.5
VARBL													
CALM	><	> <	> <	> <	><	> <	> <	>	>	$\sim$	> <	8.5	
	23.2	31.2	22.4	12.2	2.3	•1						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 1200

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### SURFACE WINDS

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SURFACE WINDS JAN 78

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#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77

STATION

ALL WEATHER

CLASS

MOURE (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	2.6	4.5	3.9	5.2	•6							16.8	8.
NNE	.6	3.2	3.2	1.3								8.4	7.
NE	1.9	1.3	.6									3.9	4.
ENE	.6	1.3	.6									2.6	5.
E	2.6	2.6	1.3									6.5	4.
ESE	.6											.6	3.
SE	1.3	2.6	.6									4.5	4.
SSE	,6	2.6	1.9	1.9								7.1	7.
5	1.9	3.2	3.9									9.0	5,
SSW	,6	.6										1.3	4,
sw	1,3											1.3	1.
wsw	.6											.6	3,
w	.6	.6										1,3	2,
WNW	1,3	1.3										2.6	3,
NW	5.8	.0	1.9									8.4	3,
NNW	3,2	2.6	.6	.6								7.1	4.
VARBL													
CALM	><	$>\!\!<$	$>\!\!<$	><	$>\!\!<$	$>\!<$	$\times$	><	><	><	> <	18.1	
	26.5	27.1	18.7	9.0	•6							100.0	4.

TOTAL NUMBER OF OBSERVATIONS 155

12925

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CHASE FIELD, TEXAS ALL WEATHER CONDITION

73-77

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SURFACE WINDS JAN

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SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	3,2	7.1	4.5	5.8	•6							21.3	7.7
NNE	2.6	1.3	2.6	1.9								8.4	7.2
NE	1.3	2.0	.6									4.5	4.9
ENE		2.6	1.3									3.9	6.2
E	1.3	1.3										2.6	3.8
ESE	1.9	1.3										3.2	3.4
SE	.6	. 4		.6								1.9	6.0
SSE	1.9	1.9	2.6	2.6								9.0	7.7
5	.6	.6	3.2									4.5	7.1
SSW	1.3	.6	.6									2.6	4.3
sw		. 6										.6	4.0
wsw													
w	.6	.6										1.3	4.0
WNW	2.6	1.9	.6									5.2	4.3
NW	3.9	1.9	1.3									7.1	3.9
NNW	3.2	3.2	1.9									8.4	4.8
VARBL													
CALM	><	$\times$	><	><	><	>	><	><	$\times$	$\sim$	>	15.5	
	25.2	28.4	19.4	11.0	.6							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

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12925 STATION

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS

JAN 78

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CHASE FIELD, TEXAS 73-77 ALL WEATHER

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.9	5.2	5.8	4.5	1.3							18.7	8.5
NNE	1.3	5.8	3.2	1.3								11.6	6,7
NE	1.9	1.9	1.3									5.2	4.0
ENE		1.9										1.9	5.0
E	3,2	.6	.6									4.5	3.4
ESE		.6										.6	6.0
SE	.6	.6	.6									1.9	5.7
SSE	.6	1.3	3.9	1.3								7.1	8.1
\$	2.6	2.6	1.9	.6								7.7	5,6
SSW	.6	1.3	. 6									2.6	5,8
sw	.6	.6										1.3	4.5
wsw		. 6										.6	4.0
w			1.3									1.3	8.5
WNW	1,3	1.3										2.6	3.3
NW	6,5	1.3	.6	.6								9.0	3.9
NNW	2.6	6.5	1.3	.6								11.0	5.2
VARBL													
CALM	><	><	$\times$	> <	> <	> <	><	><	> <	><	><	12.3	
	23.9	32.3	21.3	9.0	1.3							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

155

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73=77

STATION

STATION MARE

ALL WEATHER

OP

CLASS

NOURS (LE.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3	2.6	5.8	5.2	•6	.6						16.1	10.2
NNE	1.3	1.9	7.7	.6	.6							12.3	8.0
NE	1.3	3.2	3.2									7.7	6.3
ENE	.6	• 6	.6	.6								2.6	6.5
E	2.6	2.6	.6									5.8	3.7
ESE	.6	1.3										1.9	4.3
SE	.6	1.3	.6	.6								3.2	7.0
SSE		2.0		2.6								5.2	9.1
5	1.9	1.9	3.2	2.6								9.7	7.6
SSW		2.6										2.6	5.0
sw	1.3	1.9										3.2	4.2
wsw	1.3											1.3	3.0
w	1.3	1.9	1.3									4.5	4.9
WNW	1.3	1.9		1.3								4.5	7.0
NW		. 6	1.9									2.6	8.0
NNW	.6	2.6	3.9	1.9		.6						9.7	9.2
VARBL													
CALM	><	><	><	><	> <	$\times$	$\times$	> <	><	><	><	7.1	
	16.1	29.7	29.0	15.5	1.3	1.3						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

155

0

5702

SURFACE WINDS .

JAN 78

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0

0

0

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12925 CHASE FIELD, TEXAS 73-77
STATION HAME
ALL WEATHER
CLASS

TOTAL HOURS (LS.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.9	5.2	3.9	5.8	2.6							19.4	10.
NNE	.6	3.2	5.8	1.9	•6							12.3	8.
NE	.6	1.9	1.9									4.5	5.
ENE			1.3	1.3								2.6	11.
E	.6	1.3	1.9	.6								4.5	7.
ESE	.6	. 6	.6									1.9	5.
SE		1.9										1.9	5.
SSE	1.3	.6	3.2	3.9	1.3	.6						11.0	11.
5		3.2	4.5	6.5	1.9	•6						16.8	11.
SSW		1.3	2.6	1.9								5.8	9.
sw			1.3									1.3	9.
wsw	.6	. 6										1.3	3.
w	.6	1.3	1.3	.6								3,9	7.
WNW		1.9										1.9	5.
NW		.6	1.3	1.3								3.2	10.
NNW	.6	.6	2.6	1.3	•6	•6						6.5	11.
VARBL													
CALM	$\times$	> <	$\times$	$\times$	><	> <	><	> <	> <	><	> <	1.3	
	7.7	24.5	32.3	25.2	7.1	1.9						100.0	9,

TOTAL NUMBER OF OBSERVATIONS

155

0

5702

SURFACE WINDS

NO N

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### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS .

JAN 78

12925	CHASE FIELD.	TEXAS	73-77		DEC
STATION		STATION NAME		YEARS	MONTH
			ALL WEATHER		15
			CLASS		HOURS (L.S.T.)
			CONDITION		

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.6	4.5	5.8	5.2	1.3							17.4	9.8
NNE	1.3	4.5	.6	2.6								9.0	7.1
NE		.6	1.3									1.9	8.0
ENE	.6		.6									1.3	4.5
E	1.9	1.3	3.9	.6								7.7	6.7
ESE		1.3	2.0									3.9	7.0
SE			1.9	1.9	1.3							5.2	12.5
SSE	.6	1.3	1.3	4.5	1.9							9.7	12.0
5		1.9	5.2	6.5								13.5	10.2
SSW		. 6	1.3	1.9								3.9	10.0
sw		1.9	• 6									2.6	6.0
wsw	.6	1.3			1							1.9	4,3
w		2.6	.6	1.3								4.5	8,3
WNW	.6		2.6	.6						*		3.9	8.7
NW		.6		1.3	1.3							3,2	13.0
NNW		1.3	2.6	3.2	1.3							8.4	10.8
VARBL													
CALM	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!<$	><	><	><	><	><	1.9	
	6.5	23.9	31.0	29.7	7.1							100.0	9.2

TOTAL NUMBER OF OBSERVATIONS

155 11

0

0

0

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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5702 SURFACE WINDS JAN

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12925	CHASE FIELD, TEXAS	73-77	DEC
STATION	STATION HAME	YEARS	MONTH
		ALL WEATHER	18
		CLASS	HOURS (L.S.T.)
		CONDITION	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		7.7	6.5	4.5	•6							19.4	8.5
NNE		3.2	1.3	.6								5.2	6,3
NE	.6	4.5	1.3	.6								7.1	5.9
ENE	1,3	.6	.6									2.6	5.0
E	1.9	3.9	1.9									7.7	5.1
ESE	1.9	3.9	1.3									7.1	4.7
SE	.6	7.1	7.7	3.2								18.7	7.8
SSE		.6	5.2	2.6								8.4	9.9
5	2.6											2.6	2.5
SSW													
sw	2.6											2.6	2.0
wsw	1,3											1.3	2,5
w	.6	.6							•			1.3	3,5
WNW	2.6	1.3	.6									4.5	4.4
NW	1.3	1.9										3.2	3.6
NNW		.0	1.9	1.3								3.9	10.0
VARBL													
CALM .	><	><	><	><	><	> <	><	><	><	><	>	4,5	
	17.4	36.1	28.4	12.9	.6							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

155

CHASE FIELD, TEXAS

### SURFACE WINDS

DEC

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77

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						•	LASS						HOURS	(L.S.T.)
		_				con	(DITION				_			
(	PEED (NTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
	N	1.3	6.5	3.2	5.2								16.1	8.8
	NNE	1,3	1.3	1.3	.6								4.5	7.0
	NE	.6	2.6	2.6									5.8	5.7
	ENE	1.9	3.2	1.9									7.1	5.3
	E	2.6	2.6	.6									5.8	3.6
	ESE	3,2	1.9	.6									5.8	3.9
	SE	2,6	3.2	2.0	,6								9.0	5,6
	SSE	1.9	1.9	5.8	3.2								12.9	7.8
	5	1.3	2.6	.6	.6								5.2	5.6
	ssw	1.3	.6							U. L.			1.9	3.0
	sw													
	wsw													
	w	1.9											1.9	2.0
•	VNW	.6	1.3		1.3								3.2	7.0
		4 4							1					

12.3

TOTAL NUMBER OF OBSERVATIONS

5.5 155

100.0

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NNW VARBL CALM

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CHASE FIELD, TEXAS

STATION NAME

ALL WEATHER

CLASS

HOURS (LS.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1,6	5.4	4.9	5.2	1.0	•1						18.1	8.9
NNE	1.1	3.1	3.2	1.4	.2							9.0	7.4
NE	1.0	2.3	1.6	.1								5.1	5.
ENE	.6	1.3	.9	.2								3.1	6.
E	2.1	2.0	1.4	.2								5.6	5.
ESE	1.1	1.4	. 6									3.1	4.
SE	. 5	2.2	1.6	.9	.2							5.8	7.
SSE	.9	1.0	3.0	2.8	• 4	•1						8.8	9.
\$	1.4	2.0	2.8	2.1	•2	.1						8.6	8.
ssw	.5	1.0	.6	.5								2.6	7.
sw	.7	.6	.2									1.6	4.
wsw	.6	. 3										.9	3.
w	.7	1.0	.6	.2								2.5	5.
WNW	1.3	1.4	.5	.4								3.5	5.
NW	2.6	1.0	1.0	.5	• 2							5.2	5.
NNW	1.5	2.6	1.9	1.1	•2	•2						7.6	7.
VARBL													
CALM	$\sim$	$\times$	> <	><	><	><	> <	><	> <	><	> <	8.8	
	18.6	29.2	25.1	15.6	2.3	.4						100.0	6.

TOTAL NUMBER OF OBSERVATIONS

1240

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

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SURFACE WINDS JAN

78 0

CHASE FIELD, TEXAS

STATION NAME

ALL WEATHER

CLASS

CLASS

ALL

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1,2	2.7	3.0	2.5	• 5	.1	•0					10.0	8.7
NNE	1.2	2.6	2.0	1.0	•1							6,8	6.9
NE	. 8	2.2	1.4	4	•0							4.8	6.2
ENE	1.6	2.3	1.2	.3	•0							5.3	5.4
E	2.7	3.0	1.7	.4	•0							7.8	5.1
ESE	2.0	3.2	2.5	1.5	• 0		•0					9.3	6.7
SE	2.0	3.8	5.2	5.0	• 5	•0						16.6	8.7
SSE	1.6	2.4	3.4	3.6	.6	.1						11.6	9.0
\$	1.4	2.0	2.4	1.4	•1	•0						7.4	7.4
ssw	.5	.6	.4	.1								1.6	5.5
sw	.3	.3	• 2	.0								.8	4.8
wsw	,3	.2	.1	.0		.0						.7	4.5
w	.5	• 4	.2	.1		.0						1.3	5,4
WNW	.8	.4	• 2	.2	•0	•0	•0					1.6	5.3
NW	1.2	.6	.4	.3	•1	.0						2.6	5.7
NNW	1.0	1.3	1.0	.9	• 2	•0						4.4	7.8
VARBL													
CALM	><	><	$\times$	$>\!\!<$	><	> <	> <	> <	><	><	> <	7.4	
	19.0	28.0	25.4	17.7	2.2	.3	•0					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

14607

(1411

0

0

0

0

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0800

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12925 CHASE FIELD, TEXAS

73-77

ALL

INSTRUMENT

ALL

CIG 200 TO 1400 FT W/VSBY 1/2 MI OR MORE,

CONDITION

AND/OR VSRY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.4	3.1	4.4	4.1	•6	•1						13.7	9.0
NNE	.8	2.7	3.4	1.5	• 0							8.5	7.7
NE	1.0	2.1	2.0	.5	•0							5.6	6.4
ENE	1.1	2.2	1.2	.6	•0							5.2	6.3
E	1.9	3.0	1.9	.2								7.0	5.3
ESE	1.3	2.3	3.1	1.3								7.9	7.2
SE	1.2	2.3	5.3	4.8	• 4	•1						14.1	9.4
SSE	1.0	3.2	5.3	5.5	1.2	.0						16.3	9.5
5	1.1	1.5	3.0	1.5	•1	.0						7.2	8.0
ssw	.2	.6	.4	.1								1.2	6.
sw	.3	•1	.1									.5	4.0
wsw	.1		•1									.4	4.0
w	.4	.4	.1	.1								1.0	5,3
WNW	.5	•1	•1	.1								.9	4.
NW	.4	• 0	.4	.2								1.6	5.0
NNW	.6	1.2	1.2	.9	•1	.0						4.1	7.1
VARBL							//						
CALM	$\searrow$	$\times$	$\times$	><	$>\!\!<$	> <	$\times$	><	$\sim$	$\sim$	> <	4.8	
	13.4	25.7	31.9	21.4	2.6	.4						100.0	7.

TOTAL NUMBER OF OBSERVATIONS

2504

DIRNAVOCEANMET SMOS

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### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CHASE	FIELD,	TEXAS	- 7	3-77	ALL
		STATION NAME		YEARS	MONTH
			INSTRUME	NT	ALL
			CLASS		HOURS (L.S.T.)
		CIG 200	TO 1400 FT W/VS	BY 1/2 MI UR MURE,	
			CONDITION		
	CHASE	CHASE FIELD,		INSTRUME INSTRUME CLASS CLG 200 TO 1400 FT W/VS	INSTRUMENT  CLASE

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.4	3.1	4.4	4.1	.6	•1						13.7	9.0
NNE	. 8	2.7	3.4	1.5	.0							8.5	7.7
NE	1.0	2.1	2.0	.5	.0							5.6	6.4
ENE	1,1	2.2	1.2	.6	.0							5.2	6.3
E	1,9	3.0	1.9	.2								7.0	5.3
ESE	1.3	2.3	3.1	1.3								7.9	7.2
SE	1.2	2.3	5.3	4.8	.4	• 1						14.1	9,4
SSE	1.0	3.2	5.3	5.5	1.2	•0						16.3	9.9
S	1.1	1.5	3.0	1.5	.1	.0						7.2	8.0
SSW	. 2	.6	.4	.1								1.2	6.1
sw	. 3	.1	.1									.5	4.0
wsw	. 1	. 2	.1									.4	4.4
w	. 4	.4	.1	.1								1.0	5.3
WNW	. 5	.1	.1	.1								.9	4.9
NW	. 4	. 6	. 4	.2								1.6	5.6
NNW	,6	1.2	1.2	.9	.1	.0						4.1	7.8
VARBL													
CALM	><	$\times$	><	><	><	><	$\geq$	><	><	><	><	4.8	
	13.4	25.7	31.9	21.4	2.6	.4						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 2504

NWSD, Federal Building Asheville, N. C.

### PART D

### CEILING VERSUS VISIBILITY

This summary is a <u>bivariate percentage</u> <u>frequency</u> <u>distribution</u> by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

- 1. Annual all years and all hours combined
- 2. By month all years and all hours combined
- 3. By month by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

#### EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING							VIS	BILITY (ST	ATUTE MI	LES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING	$\sim$				~	<u></u>	$\triangle$			$\searrow$	_		~	$\sim$	~	
≥ 1800 ≥ 1500	1 100	0.02			91.0		6	0020	etsage	5 500		)	$\sim$			92.6
≥ 1200 ≥ 1000					129.										Children of the State of the St	7
≥ 900 ≥ 800																
≥ 700 ≥ 600											t also					
≥ 500 ≥ 400										97.4						98.1
≥ 300 ≥ 200	g Ly Is	D 302							No.22	1 4 5 A	20 30	d tee	1 7 73			
≥ 100 ≥ 0	and the				95.4		96.9			98.3	hand	205 13	44713	1 901 S		100.

- EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ . For instance, from the table: Ceiling  $\geq$  1500 feet = 92.6%. Ceiling  $\geq$  500 feet = 98.1%.
- EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table: Visibility  $\geq 3$  miles = 95.4%. Visibility  $\geq 2$  miles = 96.9%. Visibility  $\geq 1$  mile = 98.3%.
- EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling > 1500 feet with visibility > 3 miles = 91.0%.

#### PART D

#### ADDITIONAL EXAMPLES

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq$  1500 feet with  $\geq$  3 miles, subtracted from 97.4 read from the table at the intersection of  $\geq$  500 feet with  $\geq$  1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq$  500 feet with visibility  $\geq$  1 mile, but < 3 miles; or ceiling  $\geq$  500 feet, but < 1500 feet with visibility  $\geq$  1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

### PART D

### SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

- 1. By month and annual all hours and all years combined.
- 2. By month by standard 3-hour groups.
- NOTE: #1: Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.
- NOTE: # 2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

OKTAS		TENTHS
0		0
1		1
2		4
4		5
5		6
6		8
7		9
8 (0	r obscured)	10

# **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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5703 CEILING VERSUS VISIBILITY

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CEILING							VISI	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		36.8	36.8	38.1	38.7	38.7	39.4	40.0	40.0	40.0	40,7	40.7	41.3	41.3	41.9	43.
≥ 20000		38.7	38.7	40.0	40.7	41.3	41.9	42.6	42.6	42.6	43.2	43.2	43.9	43.9	44.5	45.1
≥ 18000 ≥ 16000		38.7	38.7	40.0	40.7	41.3	41.9	42.6	42.6	42.6	43.2	43.2	43.9	43.9	44.5	45.
≥ 14000 ≥ 12000		38.7	38.7	40.0	40.7	41.9	41.9	42.6	42.6	42.6	43,2	43.2	44.5	43.9	44.5	45.
≥ 10000 ≥ 9000		40.7	40.7	41.9	42.6	43.2	43.9	44.5	44.5	44.5	45.2	45.2	45.8	45.8	46.5	47.
≥ 8000 ≥ 7000		41.9	41.9	43.2	43.9	44.5	45.2	45.8	45.8	45,8	46.5	46.5	47.1	47.1	47.7	49.0
≥ 6000 ≥ 5000		44.5	44.5	45.8	46,5	47.1	47.7	48.4	48.4	48.4	49.0	49.0	49.7	51.0	50.3	51.6
≥ 4500 ≥ 4000		47.1	47.1	49.0	49.7	50.3	51.0	51.6	51.0	51.6	52.3	52.3	52.9	52.9	53.6	54.
≥ 3500 ≥ 3000		49.7	49.7	51.6	52.3	52.9	53.6	54.2	57.4	54.2	54.8	54.8	55.5	55.5	56.1	57.
≥ 2500 ≥ 2000		56.1	56.8	58.7	59.4	60.0	60.7	61.3	61.3	61.3	61.9	61.9	62.6	62.6	63.2	64.
≥ 1800 ≥ 1500		58.1	58.7	60.7	61,3	61.9	62,6	63.2	63.2	63.2	63,9	63.9	64.5	64.5	65.2	66.
≥ 1200 ≥ 1000		60.7	61.3	63.2	63.9	64.5	65.2	65.8	65.8	71.0	71.6	71.6	72.3	67.1	67.7	69.0
≥ 900 ≥ 800		66.5	67.1	70.3	69.7	70.3	71.6	72.3	72.3	72.9	73,6	73.6	74.2	74.2	74.8	76.
≥ 700 ≥ 600		69.0 70.3	71.0	71.6	72.3	72.9	74.2	75.5	75.5	76.1	76.8	76.8	77.4	77.4	78.1	79.
≥ 500 ≥ 400		71.6	72.3	74.8	76.1	76.8	78,7	80.0	80.0	84.5	81,9	81.9	82.6	82.5	83.2	84.
≥ 300 ≥ 200		74.2	74.8	78.7	80.0	81.3	84.5	86.5	86.5	91.0	92.3	92.3	92.9	92.9	93.6	94.
≥ 100 ≥ 0		74.2	74.8	78.7	80.0	81.3	84.5	86.5	86.5	91.0	94.2	94.2	94.8	96.8	97.4	98.

TOTAL NUMBER OF OBSERVATIONS

## **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

YEARS

JAN

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0

5703 CEILING VERSUS VISIBILITY JAN 78

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03

CEILING							VISI	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		37.4	37.4	38.7	39.4	39.4	40.0	40.0	40.7	40.7	40.7	40.7	42,6	43.2	43.2	43.
≥ 20000		38.1	38.1	39.4	40.0	40.0	40.7	41.3	41,9	41.9	41.9	41.9	43.9	44.5	44.5	45.2
≥ 18000 ≥ 16000		38.1	38.1	39.4	40.0	40.0	40.7	41.3	41.9	41.9	41.9	41.9	43.9	44.5	44.5	45.2
≥ 14000 ≥ 12000		38.1	38.1	39.4	40.0	40.0	40.7	41.3	41.9	41.9	41,9	41.9	43.9	44.5	44.5	45.2
		38.7	38.7	40.0	40.7	40.7		41 9	42 6	42.4	42.6	49.4	44.5	45.2	45.2	45.
≥ 10000 ≥ 9000		39.4	39.4	40.7	41.3	41.3	41.9	42.6	43.2	43.2	43.2	43.2	45.2	45.8	45.8	46.
≥ 8000 ≥ 7000		40.7	40.7	41.9	42,6	42.6	43.2	43.9	44.5	44.5	44,5	44.5	46,5	47.1	47.1	47.
		41.3	41.0	42.6	43.2	43.2	43.9	45.0	45.6	45.0	45 8	45.2	47 7	49 4	48 4	49.0
≥ 6000 ≥ 5000		41.9	41.9	43.2	43.9	45.8	46.5	47.1	47.7	47.7	47.7	47.7	49.7	50.3	50.3	51.0
≥ 4500		45.2	45.2	46.5	47,1	47.1	47.7	48.4	49.0	49.0	49,0	49.0	51.0	51.6	51.6	52.
≥ 4000		45.8	45.8	47.7	48.4	48.4	49.0	49.7	50.3	20.3	50.3	20.3	32.3	22.9	25.9	53.0
≥ 3500 ≥ 3000		50.3	48.4	50.3	51.0	52.9	53.6	52.3	54.8	54.8	54.8	54.8	56.8	57.4	57.4	58.
≥ 2500		52.3	52.3	54.2	54.8	54.8	55.5	56.1	56.8	56.8	56.8	56.8	58.7	59.4	59.4	60.0
≥ 2000		54.2	54.2	56.8	58,1	58.1	58.7	59.4	60.0	60.0	60.0	60.0	61.9	62.6	62.6	63.
≥ 1800 ≥ 1500		54.8	54.8	57.4	58.7	58.7	59.4	60.0	60.7	60,7	60.7	60.7	62.6	63.2	63.2	63.
		56.8	36.8	59.4	60.7	60.7	01.3	61.9	62.0	62.6	62.6	02.0	44 8	67.2	47 .	07.
≥ 1200 ≥ 1000		58.7	58.7	61.3	62.6	62.6	63.2	63.9	64.5	64.5	64.5	64.5	66.5	67.1	67.1	67.
≥ 900		59.4	59.4	61.9	63,2	63.2	63.9	64.5	65.2	65.2	65,2	65.2	67,1	67.7	67.7	68.
≥ 800		65.2	65.2	68.4	69.7	69.7	70.3	71.0	71.6	71.6	71.6	71.6	73.6	74.2	74.2	74.
≥ 700 ≥ 600		67.7	67.7	71.0	72.3	72.3	72.9	73.6	74.2	74.2	74.2	74.2	76.1	76.8	76.8	82.
		71.0	71.0	74.8	76.1	76.1	76.8	70.1	10.1	42.0	02 0	83.9	95.0	84 8	84 6	02.
≥ 500 ≥ 400		73.6	74.2	78.7	80.7	80.7	81.3	85.2	85.8	86.5	87.1	87.1	89.7	90.3	90.3	91.
≥ 300		74.2	74.8	79.4	81.3	81.9	85.8	87.1	87.7	88,4	89.0	89.0	92.3	92.9	92.9	93.
≥ 200		74.2	74.8	79.4	81.3	81.9	85.8	87.1	87.7	89,0	89,7	89.7	73.6	74.2	74.8	75.
≥ 100 ≥ 0		74.2	74.8	79.4	81.3	81.9	85.8	87.1	87.7	89.7	91.0	91.0	94.8	96.1	96.8	97.

TOTAL NUMBER OF OBSERVATIONS

155

# **CEILING VERSUS VISIBILITY**

12925 CHAS

CHASE FIELD, TEXAS

73-77

YEARS

JAN

1001

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5703 CEILING VERSUS VISIBILITY JAN 78

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PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

06

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		33.6	33.6	34.8	35.5	35.5	35.5	35.5	35.5	36.8	36.8	36.8	36.8	36.8	36.8	38.1
≥ 18000 ≥ 16000		34.2	34.2	35.5	36.1	36.1	36,1	36.1	36.1	37.4	37.4	37.4	37.4	38.1	38.7	40.0
≥ 14000 ≥ 12000		34.2	34.2	35.5	36.1	36.1	36.1	36.1	36.1	37.4	37.4	37.4	37.4	38.1	38.7	40.0
≥ 10000 ≥ 9000		34.8	34.8	36.1	36.8	36.8	36.8	36.8	36.8	38,1	38.1	38.1	38.1	38.7	39.4	40.7
≥ 8000 ≥ 7000		36.1	36.1	37.4	38.1	38.1	38.1	38.1	38.1	40.0	39,4	39.4	40.0	40.0	40.7	41.9
≥ 6000 ≥ 5000		36.6	36.8	38.1	38.7	38.7	38.7	38.7	38.7	40.0	40.0	40.0	40.0	40.7	41.3	42.6
≥ 4500 ≥ 4000		38.7	38.7	40.0	40.7	40.7	40.7	40.7	40.7	41.9	41.9	41.9	42.6	42.6	43.2	44.5
≥ 3500 ≥ 3000		43.2	43.2	44.5	45.2	45.2	45.2	45.2	45.2	48,4	46.5	48.4	46,5	47.1	47.7	49.0
≥ 2500 ≥ 2000		47.1 50.3	50.3	51.6	49.0	49.0	49.0	49.0	49.0	51.0	51.0	54.2	51.0	51.6	52.3	53.6
≥ 1800 ≥ 1500		51.0	51.0	52.9	52.9	52.9	52.9	52.9	52.9	54.8	54.8	54.8	56.8	56.1 57.4	56.8	58.1
≥ 1200 ≥ 1000		52.9	53.6	54.8	56.1	56.1	56.1	56.1	56.1	58,7	58.7	58.7	59.4	60.0	63.2	61.9
≥ 900 ≥ 800		56.8	57.4	58.7	60.0	60.0	61.3	61.3	61.3	67.1	67.1	67,1	67.7	65.2	69.0	70.3
≥ 700 ≥ 600		62.6	64.5	66.5	67.7	67.7	69.7	69.7	72.9	72:3	72.3	72.3	72.9	73.6	74.2	75.5
≥ 500 ≥ 100		65.8	70.3	70.3	71.6	71.6	74.2	74.2	74.2	76.8	76.8	76.8	77.4	78.1 82.5	78.7	80.0
≥ 300 ≥ 200		69.0	72.3	74.2	76,8	76.8	80.0	80.0	80.0	83.9	84.5	84.5	85.2	85.8 91.0	92.3	93.6
≥ 100 ≥ 0		69.0	72.9	75.5	78.7	78.7	82.6	82.6	82.6	87.7	89.0	89.0	91.6		94.8	97.4

TOTAL NUMBER OF OBSERVATIONS 155

# **CEILING VERSUS VISIBILITY**

12925

0

0

CHASE FIELD, TEXAS

73-77

YEARS

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

09

CEILING (FEET)		VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥1	≥ ¾	.≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		30.3	31.6		32.9	32.9	32.9	32.9	32.9	32.9	32.9	32,9	32,9	32.9	33.6	
≥ 20000		32.9	34.2	34.8	35.5	35,5	35.5	32.5	35,5	32.5	35,5	32.0	32,2	32.2	30.8	37.4
≥ 18000 ≥ 16000		32.9	34.2	34.8	35.5	35.5	35.5	35.5	35.5	35.5	35,5	35.5	35.5	35.5	36.8	37.4
≥ 14000 ≥ 12000		32.9	34.2	34.8	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	36.8	37.4
≥ 10000		34.2	35.5	36.1	36.8	36.8	36.8	37.4	37.4	37.4	37.4	37.4	37.4	37.4	38.7	39.4
≥ 9000		34.2	35.5	36.1	36.8	36.8	36.8	37.4	37.4	37.4	37.4	37.4	37.4	37.4	38.7	39.4
≥ 8000		34.8	36.1	36.8	37.4	37.4	37.4	38.1	38,1	38,1	38.1	38.1	38.1	38.1	39.4	40.0
≥ 7000		36.1	37.4	38.1	38.7	38.7	38.7	37.4	39.4	3714	39,4	39.4	37.4	34.4	40.7	41.3
≥ 6000 ≥ 5000		36.1	37.4	40.0	38.7	40.7	38.7	41.3	39.4	41.9	39.4	39.4	41.3	41.3	40.7	41.3
		38.1	40.7	41.3	41.9	41.9	41.9	42.6	42.6	42.6	42.6	42.6	42.6	42.6	43.9	44.5
≥ 4500 ≥ 4000		40.0	42.6	43.2	43.9	43.9	43.9	44.5	44.5	44.5	44.5	44.5	44.5	44.5	45.8	46.5
≥ 3500		41.3	43.9	44.5	45.2	45.2	45.2	45.8	45.8	45.8	45,8	45.8	45.8	45.8	47.1	47.7
≥ 3000		43.2	45,8	46.5	47.1	47.1	47.1	47.7	47.1	4797	47.7	47.7	47,7	47.7	49.0	49.7
≥ 2500		46.5	49.0	49.7	50.3	50.3	50.3	51.0	51,0	21.0	51.0	51.0	51,0	51.0	52.3	52.9
≥ 2000		48.4	51.0	52.3	52.9	52.9	52.9	53.6	53.0	53.6	53.0	53.6	53,6	53,6	54.8	50.1
≥ 1800		49.0	51.6	52.9	53.6	53,6	53.6	54,2	54.2	34.2	54.2	54.2	54.2	54.2	55.5	56.8
≥ 1500		50.3	54.4	56.1	56.4	56.8	56.8	57.4	57.4	2114	57.4	27.4	31.4	37.4	50.7	60.0
≥ 1200		51.0	54.8	57.4	58,1	58.1	58,1	58.7	58.7	20.7	58,7	58.7	58,7	58.7	60.0	61.3
≥ 1000		51.0	55.5	58.7	59.4	59.4	39.4	60,0	60.0	60,0	60.0	60.0	60.0	60.0	01.3	62.6
≥ 900 ≥ 800		52.9	57.4	60.7	61,3	61.3	61.3	61.9	01.4	01.4	61.9	01.4	01.9	01.9	63.2	64.5
≥ 800		56.1	61.3	64.5	65.2	65.2	65.8	60.5	06.5	0012	60.5	00.5	00,5	06.5	67.7	69.0
≥ 700 ≥ 600		58.1	63.2	66.5	67,1	67.1	67.7	69.0	69.0	94.0	69.0	64.0	69.0	69.0	70.3	71.6
≥ 600		58.7	64.5	69.0	69.7	69.7	71.0	72.9	72.9	72,9	72,9	72.9	72.9	72.9	74.2	75.5
≥ 500		60.7	66.5	71.6	72.9	72.9	75.5	78.7	78.7	79.4	79,4	79.4	79,4	79.4	80.7	81.9
≥ 500 ≥ 400		61.3	67.1	72.9	74,8	74.8	78.1	82.6	82.6	85,2	85,2	85.2	85,2	85.2	86.5	87.7
≥ 300 ≥ 200		61.9	67.7	73.6	75.5	75.5	78,7	85.8	85.8	89,0	89,0	89.0	90.3	90.3	91.6	92.9
≥ 200		61.9	67.7	73.6	75,3	75.5	78,7	80.5	56.5	47.0	91,6	A1.0	45.4	45.4	74.8	96.1
≥ 100 ≥ 0		61.9	67.7	73.6	75.5	75.5	78.7	86.5	86.5	91.6	91.6	91.6	92.9	93.6	95.5	97.4

TOTAL NUMBER OF OBSERVATIONS

158

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5703 CEILING VERSUS VISIBILITY JAN 78

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# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

YEARS

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST).

		VISIBILITY (STATUTE MILES)														
CEILING (FEET)							•									
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36,1	36.1	36.1	36.1	36.1	36.1	36.
≥ 20000		40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0		40.0	40.
≥ 18000		40.0		40.0	40,0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40,0	40.0	40.0	40.
≥ 16000		40.0		40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0		40.0	40.
≥ 14000		40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40,7	40.7	40.7	40.7	40.7	40.7	40.
≥ 12000		40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40,7	40.7	40.7	40.7	40.7	40.7	40.
≥ 10000		42.6		42.6	42.6	42.6	42,6	42.6	42.6	42.6	42.0	42.6	42,6	42.6	42.6	42.
≥ 9000		43.2	43.2	43.2	43,2	43.2	43.2	43.2	43.2	43,2	43.2	43.2	43,2	43.2	43.2	43.
≥ 8000		44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44,5	44.5	44,5	44.5	44.5	44.
≥ 7000		44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.
≥ 6000		45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45,2	45.2	45.2	45.2	45.2	45.
≥ 5000		47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47,1	47,1	47.1	47,1	47.1	47.1	47.
≥ 4500		47.7	47.7	47.7	47,7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47,7	47.7	47.7	47.
≥ 4000		48.4	48.4	48.4	48.4	48,4	48.4	48.4	48.4	40 94	48.4	48.4	48,4	48.4	48.4	48.
≥ 3500		49.0	-	49.0	49,0	49.0	49.0	49.0	49.0	33.0	49.0	49.0	49,0	49.0	49.0	49.
≥ 3000		51.6		52.3	52,3	52,3	52,3	52.3	52.3	22.3	52.3	22.3	52,3	52.3	52.3	52.
≥ 2500		56.1	56.8	56.8	56,	56.8	56.8	50.8	56.0	20.8	56.8	56.8	50.8	56.8	50.8	50.
≥ 2000		61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	91.9	61.9	61.9	61.9	61.9	61.9	61.
≥ 1800		63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63,9	63.9	63.9	63.9	63.9	63.9	63.
≥ 1500		69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70,3	70.3	70.3	70.
≥ 1200		73.6	1000	74.8	74,8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.
≥ 1000		74.8		76.8	76.8		76.8	76.8	76.8	76.8	76.6	76.8	76.8	76.8	76.8	76.
≥ 900 ≥ 800		76.1	78.1	78.7	79.4	79.4	79.4	79.4	79.4	80,0	80,0	80.0	80,0	80.0	80.0	80.
≥ 800		76.1	78.1	79.4	80,0		80.0	80.0	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.
≥ 700		76.1	78.1	79.4	80.0		80,0	80.0	80.0	61,3	81,3	81.3	81,3	81.3	81.3	81.
≥ 600		76.1	78.1	79.4	81.3	81.3	81.9	81.9	81.9	83,2	83,2	83.2	83.2	83.2	83.2	83.
≥ 500		76.1	78.7	81.9	83.9	83.9	85.2	85.8	85.6	67,1	87,1	87.1	87.1	87.1	87.1	87.
≥ 400		76.1	78.7	82.6	84,5	84.5	86.5	87.7	88,4	91.0	91,6	91.6	92,3	92.3	92.3	92.
≥ 300		76.8	80.0	83.9	85.8	86.5	89.0	91.6	92.3	7018	96.1	76.1	98.7	98.7	98.7	98.
≥ 200		76.8	80.0	83.9	86.5	87.1	89.7	92,3	92.9	95,5	97.4		and the second second		100.0	
≥ 100 ≥ 0		76.8	80.0	83.7	86.5	87.1	89.7	92.3	92.9	95,5	97.4				100.0	
≥ 0		76.8	80.0	83.9	86.5	87.1	89.7	92.3	92.9	95.5	97.4	97.4	100.0	100.0	100.0	100.

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET S

SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

118

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### **CEILING VERSUS VISIBILITY**

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73-77 12925 CHASE FIELD, TEXAS PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) VISIBILITY (STATUTE MILES) 0 ≥ 11/4 ≥ 11/4 ≥ 6 ≥ 5 ≥ 21/2 ≥ 1 ≥ 5/16 39.4 39.4 39.4 39.4 39.4 39.4 39.4 47.7 47.7 47.7 47.7 39.4 39.4 ≥ 20000 48.4 48.4 48.4 48.4 48.4 48.4 48.4 48.4 48.4 48.4 VERSUS 48.4 51.0 51.0 51.0 51.0 52.9 52.9 52.9 52.9 51.0 51.0 51.0 52.9 52.9 52.9 S VISIBILITY 52.9 52.9 ≥ 4500 > 4000 ≥ 3500 ≥ 3000 65.8 65.8 65.8 65.8 65.8 74.8 74.8 74.8 74.8 74.8 ≥ 1800 ≥ 1500

89.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

### **CEILING VERSUS VISIBILITY**

73-77 12925 CHASE FIELD, TEXAS PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) VISIBILITY (STATUTE MILES) CEILING ≥ 10 ≥ 6 ≥ 11/2 ≥ 11/4 ≥ 1 ≥ 5/16 41,3 41.3 41.3 41.3 41.3 41.3 41.3 ≥ 20000 50.3 50.3 50.3 50.3 50.3 50.3 50.3 50.3 50.3 ≥ 18000 ≥ 16000 51.6 51.0 51.6 51.6 51.6 51.6 53.6 53.6 53.6 53.6 53.6 53.6 54.2 54.2 54.2 54.2 54.2 54.2 53.6 55.5 55.5 55.5 ≥ 4500 ≥ 4000 ≥ 1800 ≥ 1500 ≥ 1200 ≥ 1000 85.2 85.2 85.8 85.8 92.3 92.3 92.9 92.9 92.9 92.9 87.7 88.4 87.7 88.4

TOTAL NUMBER OF OBSERVATIONS

0

92.9 92.9 96.8 97.4 97.4 98.7 98.7 98.7 98.7 98.7 92.9 92.9 96.8 97.4 97.4 99.4100.0100.0100.0

DIRNAVOCEANMET

# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21

80 M

0

5703 CEILING VERSUS VISIBILITY

JAN 7

CEILING (FEET)		VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥2	≥ 1%	≥ 1¼	≥1	≥ ¾	≥ %	2 %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		47.7	47.7	47.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.
≥ 20000		51.6	51.0	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52,3	52.3	52,3	52.3	52.3	52.
≥ 18000		51.6	51.6	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.
≥ 16000		51.6	51.6	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52,3	52.3	52.3	52.3	52.3	52.
≥ 14000		51.6	51.6	51.6	52.3	52.3	52.3	52.3	52.3	52,3	52.3	52.3	52.3	52.3	52.3	52.
≥ 12000		51.6	51.6	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52,3	52.3	52,3	52.3	52.3	52.
≥ 10000		52.9	52.9	52.9	53.6	53.6	53.6	53.6	53.0	53,6	53,6	53.6	53.6	53.6	53.6	53.
≥ 9000		52.9	52.9	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53,6	53.6	53.6	53.6	53.6	53.
≥ 8000		54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.
≥ 7000		54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.0	54.8	54,8	54.8	54.8	54.8	54.8	54.
≥ 6000		55.5	55.5	55.5	56.1	56.1	56.1	56.1	56.1	56,1	56.1	56.1	50.1	56.1	56.1	56.
≥ 5000		58.1	58.1	58.1	59.4	59.4	59,4	59.4	59.4	59,4	59,4	59.4	59.4	59.4	59.4	59.
≥ 4500		58.7	58.7	58.7	60.0	60.0	60.0	60.0	60.0	00.0	60.0	60.0	60.0	00.0	60.0	60.
≥ 4000		60.0	60.0	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61,3	61.3	61.3	61.
≥ 3500		62.6	62.6	62.6	63,9	63.9	63.9	63.9	63.4	63,9	63.9	63.9	63.9	63.9	63.9	63.
≥ 3000		64.5	64.5	64.5	65.8	65.8	65.8	65.8	65.0	05.8	65,8	05.8	65.8	05.8	05.8	65.
≥ 2500		69.7	69.7	69.7	71,0	71.0	71.0	71.0	71.0	11.0	71.0	71.0	71.0	11.0	71.0	71.
≥ 2000		72.3	72.3	72.3	73.6	73.6	73.6	73.6	73,6	13.6	73.6	73.6	73.6	73.6	73.6	73.
≥ 1800		72.3	72.3	72.3	73.6	73.6	73.6	73.6	73.0	13.6	73.0	73.6	73.6	73.6	73.6	73.
≥ 1500		72.9	72.9	72.9	74.2	74.2	74.2	74.2	74.2	1992	74.2	74.2	74.2	74.2	74.2	74.
≥ 1200		74.2	74.2	74.2	75.5	75.5	75.5	75.5	75.3	1213	75.5	15.5	75.5	75.5	75.5	75.
≥ 1000		76.1	76.1	76.1	77.4	77.4	77.4	77.4	77.4	7794	77.4	77.4	77.4	77.4	77.4	77.
≥ 900		77.4	77.4	77.4	78.7	78.7	78.7	78.7	78.7	78 . 7	78,7	78.7	70.7	78.7	78.7	78.
≥ 800		80.0	80.0	80.0	81.3	81.3	81.3	81.3	81.3	61,3	81,3	01.3	91.3	01.3	81.3	81.
≥ 700		83.9	83.9	84.5	85.0	85.8	85.8	85.8	85.8	85+8	85.0	05.0	02.0	05.0	85.8	85.
≥ 600		84.5	84.5	85.2	86.5	86.5	86.5	80.5	86.5	0015	80,5	90.5	80.5	00.5	50.5	86.
≥ 500 > 400	1 1 1 1	85.8	85.8	86.5	87.7	87.7	87.7	87.7	87.7	87.7	88.4	00.4	80,4	88.4	88.4	88.
≥ 400		85.8	85.8	87.7	89.0	89.0	89.0	84.0	89.0	90,3	91.0	91.0	91.0	41.0	91.0	91.
≥ 300		86.5	86.5	89.0	90.3	90.3	90.3	91.0	91,0	92.3	94.8	74.8	74.8	94.8	94.8	94.
≥ 200		86.5	86.5	89.0	91.0	91.0	91.0	91.6	91.6	92,9	95,5	95.5	90.8	97.4	97.4	97.
≥ 100 ≥ 0		86.5	86.5	89.0	91.0	91.0	91.0	91.6	91.6	92.9	96.1	96.1	98.1	99.4	99.4	99.
≥ 0		86.5	86.5	89.0	91.0	91.0	91.0	91.6	91.6	92,9	96.1	96.1	40.1	99.4	100.0	100.

TOTAL NUMBER OF OBSERVATIONS 15

DIRNAVOCEANMET SMO

# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS.

73-77

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5703 CEILING VERSUS VISIBILITY JAN 78

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

							VIS	BILITY (ST	ATUTE MU	56)						
CEILING																
(FEET)	≥ 10	- ≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		37.8	38.0	38.6	39.0	39.0	39.1	39.2	39.3	39,4	39.5	39.5	39,8	39.9	40.1	40.
≥ 20000		41.7	41.9	42.4	42.8	42.9	43.1	43.2	43.3	43,5	43,6	43.6	43.9	44.0	44.4	44.
≥ 18000		41.9	42.1	42.7	43,1	43.2	43.3	43.5	43.6	43,7	43.8	43.8	44.1	44.3	44.6	45.
≥ 16000		41.9	42.1	42.7	43.1	43.2	43.3	43.5	43.0	43,7	43.8	43.6	44.1	44.3	44.6	45.
≥ 14000 ≥ 12000		42.3	42.4	43.0	43.4	43.3	43.6	43.8	43.9	4710	44.1	44.1	***	44.0	44.9	45.
-		42.3	42.7	43.2	43.0	43.7	43.9	44.0	44.1	45.0	49.9	49.9	44.1	44,5	42.2	47.
≥ 10000 ≥ 9000		43.5	43.9	44.2	44,6	44.7	44.0	45.1	45.2	45,3	45.4	45.7	45.1	45.7	40.2	46.
		43.7	43.9	45.8	46.2	46.3	45.1	46.7	45.4	40.9	47 0	47.0	40.0	40.1	40.5	40,
≥ 8000 ≥ 7000		46.1	46.3	46.9	47.3	47.3	47.5	47.7	47.8	48.0	48 1	48.1	48 4	48.4	48.0	40.
		46.5	46.7	47.3	47.7	47.7	47.9	48.2	48.2	48.4	48.5	48.3	48 R	49.0	49.3	49.
≥ 6000 ≥ 5000		48.2	48.5	49.1	49.6	49.7	49.8	50.1	50.2	50.3	50.4	50.4	50.7	50.9	51.2	51.
		49.4	49.7	50.3	50.8	50.9	51.1	51.3	51.4	51.5	51.6	51.6	51.9	52.1	52.4	52.
≥ 4500 ≥ 4000		50.5	50.8	51.5	52.0	52.1	52.3	52.5	52.6	52.7	52.8	52.8	53.2	53.3	53.6	54.
≥ 3500		52.6	52.9	53.6	54.1	54.2	54.4	54.6	54.7	54.8	54.9	54.9	55.2	55.4	55.7	56.
≥ 3000		54.5	55.0	55.7	56.2	56.3	56.5	56.7	56.8	56.9	57.0	57.0	57.3	57.5	57.8	58.
≥ 2500		58.2	58.7	59.4	59.9	60.0	60.2	60.4	60.5	60.7	60.8	60.8	61.1	61.3	61.6	62.
≥ 2000		61.8	62.3	63.2	63.7	63.8	64.0	64.2	64.3	64,5	64.6	64.6	65.0	65.2	65.5	66.
≥ 1800		62.7	63.2	64.0	64.6	64.7	64.8	65.1	65.2	65.4	65.5	65.5	65,9	66.1	66.4	66.
≥ 1500		64.9	65.7	66.6	67.2	67.3	67.4	67.7	67.7	68 . 1	68.2	68.2	68.6	68.7	69.0	69.
≥ 1200		66.5	67.4	68.5	69.1	69,2	69,4	69.6	69.7	70.0	70,1	70.1	70.5	70.7	71.0	71.
≥ 1000		68.1	69.0	70.2	70.9	71.0	71.2	71.5	71.5	71,9	72.0	72.0	72,4	72.6	72.9	73.
≥ 900		69.3	70.3	71.9	72.3	72.3	72.7	73.0	73.1	73,6	73.6	73.6	74.0	74.2	74.5	75.
≥ 800		71.4	72.7	74.1	74.9	75.0	75.5	75.7	75.8	70,4	76.5	76.5	76.9	77.0	77.3	77.
≥ 700 ≥ 600		73.4	74.8	76.3	77.3	77.3	78,0	78.4	78.5	79.1	79.2	79.2	79.6	79.8	80.1	80.
		74.5	76.1	77.8	79.0	79.1	79.9	80.6	80.7	81.4	81,5	81.5	81.9	82.1	82.4	83.
≥ 500 ≥ 400		75.5	77.2	79.5	81,0	81.2	82.6	83.6	83.7	84,7	85,0	85.0	85.4	85.6	85,9	86.
		76.1	77.9	80.7	82.5	82.7	84.8	86.4	86.5	88,3	89.0	89.0	89.6	89.8	90.1	90.
≥ 300 ≥ 200		76.6	78.7	01.3	83.4	83.8	86.2	89.3	80.	92.6	92.4	92.4	93.6	93.7	94.0	74.
		76.6	78.7	81.7	83.8	84.2	86.8	07.3	89.4	92.8	74.0	94.0	95,7	96.0	96.5	97.
≥ 100 ≥ 0	1	76.6		01.1	83.8	04.2	86.8	99.3	89.4	92.8	94.5	94.				98.
-		76.6	78.7	81.7	83.8	54.2	86.8	89.3	89.4	1610	94.5	94.5	96.5	97.7	98.4	100.

TOTAL NUMBER OF OBSERVATIONS 1

1240

#### **CEILING VERSUS VISIBILITY**

CHASE ELELD, TEXAS

0

5703 CEILING VERSUS VISIBILITY JAN 78

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	BILITY (STA	ATUTE MILE	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		57.5	58.2	58.2	58.2	58.2	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	59.0
≥ 20000		56.9		59.6	59.6	59.6	60.3	60.3	60.3	60,3	60.3	60.3	60.3	60.3	60.3	61.0
≥ 18000 ≥ 16000		58.9	59.6	59.6	59.6	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.
≥ 14000		59.6	60.3	60.3	60.3	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.
≥ 12000		60.3	61.0	61.0	61.0	61.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	62.
≥ 10000		61.0	61.7	61.7	61.7	61.7	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	63.
≥ 9000		61.7	62.4	62.4	62.4	62.4	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.
≥ 8000		62.4	63.1	63.1	63.1	63.1	63.8	63.8	63.8	63.8	63.6	63.8	63.8	63.8	63.8	64.
≥ 7000		64.5	65.3	65.3	65,3	65.3	66.0	66.0	66.0	60.0	66.0	66.0	66.0	66.0	66.0	66.
≥ 6000		65.3	66.0	66.0	66.0	66.0	66.7	66.7	66.7	00.7	66. 7	66.7	66.7	66.7	66.7	67.
≥ 5000		66.7	67.4	67.4	67.4	67.4	68.1	68.1	68.1	68.1	68,1	68.1	68.1	68.1	68.1	68.
≥ 4500		68.1	68.8	68.9	68,8	68.8	69.5	69.5	69.5	69.5	64.5	09.5	70.9	69.5	69.5	70.
≥ 4000		69.5	70.2	70.2	70.2	70.2	70.9	70.9	70.9	70,9	70.9	70.9	70.9	70.9	70.9	71.
≥ 3500 ≥ 3000		70.9	72.3	71.6	71.6	71.6	72.3	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.
≥ 2500		72.3	73.1	73.1	73.1	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	74.
≥ 2000		73.1	73.8	73.8	73.8	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	75.
≥ 1800		73.1	73.8	73.8	73.8	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	75.
≥ 1500		75.2	75.9	75.9	75.9	75.9	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	77.
≥ 1200		76.6	77.3	77.3	77.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.
≥ 1000		78.7	79.4	79.4	79.4	79.4	80.1	80.1	80.1	80.1	80.1	80 . 1	80.1	80.1	80.1	80.
≥ 900		79.4	80.1	80.1	80.1	80.1	80.9	80.9	80.9	80,9	80.9	80.9	80.9	80.9	80.9	81.
≥ 800		84.4	85.1	85.1	85.1	85.1	85.8	86,5	86.5	86.3	86.5	86.5	86.5	86.5	86.5	87.
≥ 700		85.8	86.5	86.5	86,5	86.5	87.2	87.9	87.9	87.9	87.9	87.9	87.9		87.9	88.
≥ 600		87.2	87.9	87.9	87.9	87.9	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	90.
≥ 500		88.7	89.4	90.1	90.1	90.1	90.8	91.5	91.5	41.2	91,5	91.5	91.5	91.5	91.5	92.
≥ 400		89.4	90.1	90.8	90.8	90.8	91.5	92.2	92.2	92.9	92.9	92.9	92.9	92.9	92.9	93.
≥ 300		90.1	91.5	92.2	92,2	92.2	93.6	94.3	94.3	93.0	95,0	95.0	95.0	95.7	95.7	96.
≥ 200		90.1	92.2	92.9	92.9	92.9	94.3	95,7	95.7	7192	97.2	97.2	91.2	97.9	97.9	98.
≥ 100 ≥ 0		90.1	92.2	92.9	92.9	92.9	94.3	95.7	95.7	97.2	97.2	97.2	97.9	98.6	98.6	99.
2 0		90.1	92.2	92.9	92.9	92.9	94.3	95.7	95.7	97,2	97.2	97.2	97.9	96.6	98.6	100

141 TOTAL NUMBER OF OBSERVATIONS

## **CEILING VERSUS VISIBILITY**

TELD, TEXAS

STATION

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		43.3	45.4	48.9	48.9	48.9	49.7	49.7	49.7	50.4	50.4	50.4	51.1	51.1	51.1	51.8
≥ 20000		46.8	48.9	52.5	52.5	52.5	53.2	53.2	53.2	53.9	53.9	53.9	54,6	54.6	54.6	55.3
≥ 18000		45.8	48.9	52.5	52.5	52.5	53.2	53.2	53.2	53,9	53.9	53.9	54.6	54.6	54.6	55.3
≥ 16000		46.8	48.9	52.5	52.5	52.5	53.2	53.2	53.2	53.9	53.9	53.9	54.6	54.6	54.6	55.3
≥ 14000		46.8	48.9	52.5	52.5	52.5	53.2	53.2	53.2	53,9	53.9	53.9	54.6	54.6	54.6	55.3
≥ 12000		46.8	48.9	52.5	52.5	52.5	53.2	53.2	53.2	53.9	53.9	53.9	54.6	54.6	54.6	55.3
≥ 10000		46.8	48.9	52.5	52.5	52.5	53.9	53.9	53.9	54.6	54.6	54.6	55.3	55.3	55.3	56.0
≥ 9000		47.5	49.7	53.2	53.2	53.2	54.6	54.6	54.0	55,3	55.3	55.3	56.0	56.0	56.0	56.7
≥ 8000		47.5	49.7	53.2	53.2	53.2	54.6	54.6	54.6	55.3	55.3	55.3	56.0	56.0	56.0	56.7
≥ 7000		48.2	50.4	53.9	53.9		55.3	55.3	55.3	56.0	56.0	56.0	56.7	56.7	56.7	57.5
≥ 6000		49.7	51.8	55.3	55.3	55.3	56.7	56.7	56.7	57.5	57.5	57.5	58.2	58.2	58.2	58.9
≥ 5000		52.5	54.6	58.2	58.2	58.2	59.6	59.6	59.6	60.3	60.3	60.3	61.0	61.0	61.0	61.7
		52.5	54.6	58.2	58.2	58.2	59.6	59.6	59.6	60.3	60.3	60.3	61.0	61.0	61.0	61.7
≥ 4500 ≥ 4000		53.2	55.3	58.9	58.9		60.3	60.3	60.3	61.0	61.0	61.0	61.7	61.7	61.7	62.4
		54.6	57.5	61.0	61.0	2 2 -	62.4	62.4	62.4	63.1	63.1	63.1	63.8	63.8	63.8	64.5
≥ 3500 ≥ 3000		57.5	60.3	63.8	63.8	63.8	65.3	45.2	65.3	66.0	66.0	66.0	66.7	66.7	66.7	67.4
		58.9	62.4	66.0		66.0	67.4	47.4	67.4	68.1	68.1	68.1	68.8	68.8	68.8	69.5
≥ 2500 ≥ 2000		60.3	63.8	67.4	47.4	67.4	68.8	68.8	68.8	69.5	69.5	69.5	70.2	70.2	70.2	70.9
		60.3	63.8	67.4	47.4	67.4	68.8	-	68.8	69.5	69.5	69.5	70.2	70.2	70.2	70.9
≥ 1800 ≥ 1500		61.7	65.3	68.8	68.8	68.8	70.2	70.2	70.2	70.9	70.9	70.9	71.6	71.6	71.6	72.3
		64.5	48.1	71.4	71.6	71.4	73.1	73.1	73.1	73.8	73.8	73.B	74.5	74.5	74.5	75.2
≥ 1200 ≥ 1000		68.1	71.6	75.2	75.2	75.2	76.6	76.6	76.6	77.2	77.3	77.3	78.0	78.0	78.0	78.7
		70.2	73.8	77.2	77.2	77.2	78.7	78. 3	78.7	79.4	79.4	79.4	80.1	80.1	80.1	80.9
≥ 900 ≥ 800		74.5	78.0	91.6	81.6	81.6	83.0	93 0	83.0	83.7	83.7	83.7	84.4	84.4	84.4	85.1
		75.9	79.4	83.7		92 7		95 1	85.1	85.8	85.8	RR.R	86.5	86.5	86.5	87.2
≥ 700 ≥ 600			79.4	83.7	83.7	83.7	85.1	85.1	85.1	85.8	85.8	85.8	86.5	86.5	86.5	87.2
		75.9	83.0	07 7	03.1	03.1		85.1	88.7	90.1	90.1	90.1	90.8	90.8	90.8	91.5
≥ 500 ≥ 400		78.7		07.2	07.6	97.4	88.7	89.4	89.4	90.8	90.8	90.8	91.5	91.5	91.5	
		78.7	83.7	87.9	87.9	87.9	89.4			91.	91.5	90.0	92.2		92.2	92.2
≥ 300 ≥ 200		79.7	04.4	88.7	80.1	88.7	90.1	90.1	90.1	93.5		71.7		92.2		92.9
≥ 200		78.7	84.4	88.7	88.7	86.7	90.1	90.8	90.8	92.2	92,2	92.2	93,6		93.6	
≥ 100		78.7	54.4	88.7	88.7	88.7	90.1	90.8	90.8	92.2	92.2	72.2	93.6	200	95.0	
5 0		78.7	84.4	88.7	88.7	88.7	90.1	90.8	90.8	95.5	92.2	92.2	93.6	95.7	95.7	100.0

TOTAL NUMBER OF OBSERVATIONS 141

## **CEILING VERSUS VISIBILITY**

12925 CHASE FIELD, TEXAS

0

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0

5703 CEILING VERSUS VISIBILITY JAN 78

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		39.0	39.7	41.8	43.3	43.3	44.0	44.0	44.0	45.4	45.4	45.4	40.8	47.5	48.2	50.4
≥ 20000		40.4	41.1	43.3	44.7	44.7	45.4	45.4	45.4	46.8	46.8	46.8	48.2	48.9	49.7	51.8
≥ 18000		40.4	41.1	43.3	44.7	44.7	45.4	45.4	45.4	46.8	46.8	46.8	48.2	48.9	49.7	51.8
≥ 16000		40.4	41.1	43.3	44.7	44.7	45.4	47.4	45.4	40.8	46.8	40.8	48.2	48.9	49.7	51.8
≥ 14000		40.4	41.1	43.3	44.7	44.7	45.4	40.4	45.4	40.8	46.8	46.8	48.2	48.9	49.7	51.8
≥ 12000		41.8	42.6	44.7	46.1	46.1	46.8	40.8	46.0	40.2	48.2	48.2	49.7	20.4	21.1	53.2
≥ 10000		41.8	42.6	44.7	46,1	40.1	46.8	40.8	46.8	48 . 2	48.2	48.2	47.7	20.4	21.1	53.2
≥ 9000		41.8	42.6	44.7	46.1	40.1	46.8	40.8	46.0	48,2	48.2	48.2	47.1	50.4	51.1	53.2
≥ 8000		41.8	42.6	44.7	46.1	46.1	46.8	40.0	46.0	48,2	48.2	48.2	47.1	20.4	21.1	53.2
≥ 7000		44.0	44.7	46.8	48.2	48.2	48.9	40.9	48.9	50.4	50.4	50.4	51.8	52.5	53.2	55.3
≥ 6000		44.0	44.7	45.8	48.2	Chicago March 1984	48.9	40.9	48.9	50.4	50,4	20.4	31.8	52.5	53.2	55.3
≥ 5000		40.8	47.5	49.7	51.1	51.1	51.8	51,8	51.0	53.2	53.2	53.2	34,6	55.3	50.0	58.2
≥ 4500		46.8	47.5	49.7	51.1	51.1	51.8	51.8	51.0	53.2	53.2	23.Z	54.6	25.3	56.0	58.2
≥ 4000		46.8	47.5	49.7	51.1	51.1	51.8	51.8	51.0	53,2	53.2	53.2	54.6	55.3	56.0	58.2
≥ 3500		48.2	48.9	51.1	52.5	52.5	53.2	53.2	53.2	24.0	24,0	54.0	30.0	20.7	57.5	59.6
≥ 3000		48.9	49.7	51.8	53.2	53.2	53.9	53.9	53.9	55.3	55.3	22.5	50.7	59.6	58.2	60.3
≥ 2500 ≥ 2000		51.1	51.4	53.9	55.3	55.3	56.0	56.0	56.0	3/95	57.5	42.4	43.0		60.3	62.4
		55.3	56.7		60.3	60.3	61.0	61.0	61.0	02.4	62.4	62.4	77.0	65 3	65.3	67.4
≥ 1800 ≥ 1500		56.0	57.5	59.6	61.0	61.0	61.7	61.7	61.	03.1	63.1	63.1	64.5	67.4	66.0	68.1
2 1300		57.5	58.9	61.7	63.1	63.1	63.8	63.8	63.8	65,3	65.3	65,3	48 1	67.4	69.5	70.2
≥ 1200 ≥ 1000		58.9	60.3	63.1	64.5	64.5	65.3	65.3	65.3	70.7	66.7	00.7	30.1	68.8		71.6
		62.4	63.8	66.7	68.1	68.1	68.8	60.8	58.0	70,2	70.2	70.2	71.0	75 0	73.1	75.2
≥ 900 ≥ 800		64.5	66.7	70.2	71.6		72,3	72.3	72.3	75.0	73.8		76.6	77 9	76.6	
		66.0	68.1	71.0	73.1	73.1	73.8	73.8	73.8	78.0	75.2	75.2	70.6	80 1	78.0	80.1
≥ 700 > 600		68.1	70.2	73.8	75.9		76.6	76.6	76.0	10.0		78.0	81 4	82.3	83.0	83.0
		69.5	71.6	75.2	78.0		78.7	78.7	78.7	82.3	82.3	80.1	83.7	84.4	85.1	87.2
≥ 500 ≥ 400		70.9	73.1	76.6	80.1	80.9	80.9	80.9	80.9	83.7	83.7	83.7			86.5	88.7
		70.9			-	83.0	81.6	82.3	82.3	86.5	A	-	87.9	89.4	90.1	92.2
≥ 300 ≥ 200		71.6	74.3	78.7	83.0		84.4	85.1	85.1	88.7	88.7	88.7	90.1	91.5	92.2	95.0
		71.6	74.5	79.4	83.0		84.4	85.8	85.8	89.4	89.4	89.4		92.2	93.6	97.9
≥ 100		71.6	74.5		83.7	83.7	85.1	86.5	86.5	89.4	89.4	89.4		92.9		
≥ 0		71.6	1402	79.4	83.7	83.7	85.1	86.5	86.5	2,14	0704	07.4	70.0	1607	7703	100.0

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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5703 CEILING VERSUS VISIBILITY JAN 3

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S.T.)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		41.8	41.8	44.0	44.0	44.0	44.0	44.7	44.7	44.7	45.4	45.4	45.4	45.4	45.4	45.4
≥ 18000 ≥ 16000		41.8	42.6	44.7	44.7	44.7	44.7	45.4	45.4	45.4	46.8	46.8	46.8	46.8	46.1	46.8
≥ 14000 ≥ 12000		42.6	43.3	45.4	45.4	45.4	45.4	46.1	46.8	46.8	47.5	46.8	47.5	46.8	46.8	47.5
≥ 10000 ≥ 9000		48.2	48.9	51.1	51.1	51.1	51.1	51.8	51.8	51.8	52.5	52.5	52.5	52.5 52.5	52.5	52.5
≥ 8000 ≥ 7000		51.8	52.5	54.6	54.6	54.6	54.6	55.3	55.3	55.3	56.0	56.0	56.0	56.0	56.0	56.0
≥ 6000 ≥ 5000		51.8 52.5	52.5	55.3	55.3	55.3	55.3	55.3	56.0	56.0	56.7	56.7	56.7	56.7	56.7	56.7
≥ 4500 ≥ 4000		53.2	54.6	56.7	57.5	57.5	57.5	58.2	56.7	58,2	57,5	58.9	58.9	57.5	57.5	57.5
≥ 3500 ≥ 3000		54.6	55.3	57.5	58.2	58.2	58.2	58.9	60.3	60,3	61.0	61.0	61.0	61.0	61.0	61.0
≥ 2500 ≥ 2000		57.5	61.0	63.1	65.3	66.0	66.7	67.4	67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1
≥ 1800 ≥ 1500		62.4	63.1	65.3	65.3	68.8	70.2	70.9	70.9	70.9	71.6	71.6	71.6	71.6	71.6	71.6
≥ 1200 ≥ 1000		63.8	65.3	68.1	70.9	70.2	71.6	72.3	72.3	74.5	75, 2	75.2	75.2	75.2	75.2	75.2
≥ 900 ≥ 800		66.7	68.8	70.9	73.8	76.6	76.6	77.3	79.4	79,4	80.1	80.1	80.1	80.1	80.1	80.1
≥ 700 ≥ 600		67.4	70.2	75.2	77.3	80.1	83.0	83.7	83.7	83.7	84.4	84.4	84.4	84.4	84.4	84.4
≥ 500 ≥ 400		68.8	71.6	76.6	82.3	84.4	87.2	87.9	87.9	87.9	88.7	88.7	88.7	88.7	88.7	88.7
≥ 300 ≥ 200		68.8	71.6	77.3	85.1	86.5	89.4	91.5	92.2	94.3	95.0	95.0	95.7	95.7	96.5	97.2
≥ 100 ≥ 0		68.8	71.6	77.3	85.1	86.5	89.4	91.5	92.2	95.0	96.5	96.5	97.2	97.9		100.0

TOTAL NUMBER OF OBSERVATIONS

141

#### **CEILING VERSUS VISIBILITY**

12925 CHASE FIELD, TEXAS

73-77

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0

5703 CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		50.4	50.4	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	44.7 51.1	51.1	44.
≥ 18000 ≥ 16000		51.1	51.1	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.
≥ 14000 ≥ 12000		53.2 53.2	53.2	53.9 53.9	53.9	53.9 53.9	53.9	53.9	53.9	53.9	53.9 53.9	53.9	53.9	53.9 53.9	53.9	53. 53.
≥ 10000 ≥ 9000		55.3 55.3	55.3	56.0 56.0	56.0	56.0	56.0	56.0	56.0	56,0	56.0	56.0	56.0	56.0	56.0	56.
≥ 8000 ≥ 7000		58.2	58.2	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58. 60.
≥ 6000 ≥ 5000		60.3	60.3	61.0	61.7	61.0	61.0	61.7	61.7	61.0	61.7	61.7	61.7	61.0	61.0	61.
≥ 4500 ≥ 4000		61.7	62.4	63.1	63.1	62.4	62.4	63.1	63.1	63.1	62.4	62.4	63.1	62.4	63.1	62.
≥ 3500 ≥ 3000		63.8	63.8	67.4	67.4	67.4	64.5	67.4	67.4	67,4	67.4	67.4	67.4	67.4	67.4	67.
≥ 2500 ≥ 2000		71.6	71.6	77.3	72.3	72.3	72.2	72.3	72.3	72.3	77.3	72.3	72.3	72.3	72.3	72.
≥ 1800 ≥ 1500		78.0 85.1	78.0	78.7 85.8	78.7	78.7	78.7	78.7	78.7	86.5	78.7	78.7	86.5	78.7 86.5	78.7	78.
≥ 1200 ≥ 1000		87.2	90.1	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.
≥ 900 ≥ 800		90.1	90.8	91.5	92.9	92.2	92.2	92.2	92.2	92.2	92.9	92.2	92.2	92.2	92.2	92.
≥ 700 ≥ 600		91.5	92.2	92.9	93.6	93.6	93.6	95.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	95.
≥ 500 ≥ 400		92.9	93.6	94.3	95.7	95.7	95.7	95.7	95.7	96,5	95.7	95.7	96.5	96.5	96.5	95.
≥ 300 ≥ 200		92.9	93.6	94.3	95.7	96.5	97.2	98.6	98.6	98.6	97.9		-	98.6		
≥ 100 ≥ 0		92.9	93.6	94.3	95.7	96.5	97.2	98.6	98.6	98.6	99.3			100.0		

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

## **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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5703 CEILING VERSUS VISIBILITY JAN 78

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		47.5	47.5	56.0	47.5	47.5	47.5	47.5	47.5	56.0	47.5	56.0	56.0	47.5 56.0	47.5	56.0
≥ 18000 ≥ 16000		57.5 57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5 57.5
≥ 14000 ≥ 12000		58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58,9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 10000 ≥ 9000		61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61,7	61.7	61.7	61,7	61.7	61.7	61.7
≥ 8000 ≥ 7000		63.8	63.8	63.8	63.8	63.8	63.8	63.8	65.3	65,3	63,8	63.8	63,8	63.8	65.3	63.8
≥ 6000 ≥ 5000		67.4	67.4	67.4	67,4	67.4	66,0	67.4	67.4	67,4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 4500 ≥ 4000		67.4	68.1	67.4	68.1	67.4	67.4	67.4	67.4	6704	68.1	68.1	68.1	67.4	68.1	68.1
≥ 3500 ≥ 3000		68.8	74.5	68.8 74.5	68.8	68.8	74.5	68.8	68.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 2500 ≥ 2000		81.6	81.6	81.6	82.3	82.3	82.3	82.3	82.3	88.7	82,3	82.3	88.7	82.3	82.3	82.3
≥ 1800 ≥ 1500		91.5	91.5	91.5	90.1	90.1	90.1	90.1	90.1	90:1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1200 ≥ 1000		91.5	91.5	91.9	92,2	92.2	92,2	92.2	92.2	92.2	93,5	92.2	93.6		92.2	92.2
≥ 900 ≥ 800		93.6	93.6	93.6	94.3	94.3	94.3	94.3	94,3	94,3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 700 ≥ 600		93.6	94.3	94.3	94.3	94.3	94.3	94.3	94.3	95.7	94.3	95.7	94.3	94.3	94.3	94.3
≥ 500 ≥ 400		94.3	95.0	95.7	96.5	97.2	97.2	97.9	97.9	97,9	97,9	98.6	98.6	98.6	97.9	97.9
≥ 300 ≥ 200		95.0	95.7	96.5	97,2	97.9	97.9	98.6		100.0	100.0	100.0	100.0	-	100.0	100.0
≥ 100 ≥ 0		95.0	95.7	96.5	97.2	97.9	97.9	98.6		100 0				40		

TOTAL NUMBER OF OBSERVATIONS

141

## **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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CEILING VERSUS VISIBILITY

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	BILITY (STA	ATUTE MIL	ES)						
(FEET)	<del>≥</del> 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54,6	54.6	54.6	54,6	54.6	54.6	54.6
≥ 20000		67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 18000 ≥ 16000		68.8	68.8	68.8	69.5	68.8	68.8	68.8	68.8	69.5	69.5	68.8	68.8	68.8	68.8	68.8
≥ 14000 ≥ 12000		70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 10000 ≥ 9000		75.2	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 8000 ≥ 7000		76.6	77.3	77.3	77.3	77.3	77,3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 6000 ≥ 5000		78.7	80.1	80.1	80.1	80.1	80.9	80.1	80.1	80.1	80,1	80.1	80.1	80.1	80.1	80.1
≥ 4500 ≥ 4000		79.4	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.6	80.9	80.9	80.9	80.9
≥ 3500 ≥ 3000		80.9	82.3	82.3	82.3	82.3	82,3	82.3	82.3	82,3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 2500 ≥ 2000		85.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1800 ≥ 1500		87.2	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88,7	88.7	90.8	88.7	88.7	88.7
≥ 1200 ≥ 1000		90.8	92.2	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 900 ≥ 800		90.8	92.2	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 700 ≥ 600		92.2	93.6	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 500 ≥ 400		92.2	93.6	94.3	94.3	94.3	94.3	94.3	94.3	95,7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 300 ≥ 200		92.2	93.6	94.3	94.3	95.0	95.7	96.5	96.5	98.6	98,6	98.6	98.6	98.6	98.6	98.6
≥ 100 ≥ 0		92.2	93.6	94.3	94.3	95.0	95.7	96.5	97.2	99.3	99.3	99.3		100.0		

TOTAL NUMBER OF OBSERVATIONS 141

## **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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5763 CEILING VERSUS VISIBILITY JAN 78

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PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

CEILING							VISI	BILITY (ST	ATUTE MILI	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		63.8	63.8	63.8	63,8	63.8	63.8	63.B	63.8	03.8	63,8	63.8	63.8	63.8	63.8	63.
≥ 20000		67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67,4	67.4	67.4	67.4	67.4	67.
≥ 18000		67.4	67.4	67.4	67.4	67.4	67.4	67.4	67,4	67.4	67,4	67.4	67,4	67.4	67.4	67.
≥ 16000		67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.
≥ 14000		70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70,2	70,2	70.2	70.2	70.2	70.2	70.
≥ 12000		70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.
≥ 10000		73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.
≥ 9000		73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73,1	73,1	73.1	73.1	73.1	73.1	73.
≥ 8000		73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.
≥ 7000		75.9	75.9	75.9	76.6	76.6	76.6	76.6	76.6	7696	76.6	76.6	76.6	76.6	76.6	76.
≥ 6000		75.9	75.9	75.9	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.
≥ 5000		77.3	77.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.
≥ 4500		77.3	77.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.
≥ 4000		78.0	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78
≥ 3500		79.4	79.4	79.4	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.
≥ 3000		80-1	80.1	80.1	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.
≥ 2500		82.3	82.3	82.3	83.Q	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.
≥ 2000		82.3	82.3	82.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83
		82.3	82.3	82.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.D	83.
≥ 1800 ≥ 1500		83.0	83.0	83.0	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83
		84.4	84.4	84.4	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.
≥ 1200 ≥ 1000		85.8	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86
		87.9	87.9	87.9	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.
≥ 900 ≥ 800		90.8	90.8	91.5	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92
		91.5	91.5	92.2	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92
≥ 700 ≥ 600		93.6	93.6	94.3	95.0	95.0		95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95
		94.3	94.3		95.7			97.2	97.2	97.3	97.2	97.2	97.2		97.2	97
≥ 500 ≥ 400				95.0		95.7	96.5	97.9	97.9	97.0	97.9	97.9	97.9	97.9	97.9	97
		95.0	95.0	95.7	96.5	96.5		97.9	97.9	98.4	98.6	98.6	BR*	98.6	98.6	98
≥ 300 ≥ 200		95.0		95.7	96.5		97.2	2007		00 4		98.6	00'	00 .	00 .	98
2 200		95.0	95.0	95.7	96.5	96.5	97.2	97.9	97.9		98.6	7 44			99.3	99
≥ 100		95.0	95.0	95.7	96.5	96.5	97.2	97.9	97.9	98.6	98.6	98.6		100		
≥ 0		95.0	95.0	95.7	96.5	96.5	97.2	97.9	97.9	98,6	98.6	98.6	77.3	100.0	100.0	100.

TOTAL NUMBER OF OBSERVATIONS

141

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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5703 CEILING VERSUS VISIBILITY

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	BILITY (ST.	ATUTE MILI	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		48.9	49.4	50.4	50.6	50.6	50.9	51.0	51.0	51.2	51.3	51.3	51.6	51.7	51.8	52.
≥ 20060		53.6	54.2	55.2	55.4	55.4	55.7	55.8	55.8	56.0	56,1	56.1	56.4	56.5	56.6	57.
≥ 18000		54.1	54.6	55.7	55.9	55.9	56.1	56.2	56.2	56.5	56.6	56.6	56,8	56.9	57.0	57.
≥ 16000		54.3	54.8	55.9	56.0	56.0	56.3	56.4	56.4	50.7	56.7	56.7	57.0	57.1	57.2	57.
≥ 14000		55.3	55.9	56.9	57.1	57.1	57.4	57.5	57.5	57.7	57.8	57.8	56.1	58.2	58.2	58.
≥ 12000		56.2	56.8	57.9	58.1	58.1	58.3	58.4	58.4	58.7	58,8	58.8	59.0	59.1	59.2	59.
≥ 10000		57.9	58.5	59.6	59,8	59.8	60.1	60.2	60.2	60.5	60,6	60.6	60.8	60.9	61.0	61.
≥ 9000		58.1	58.7	59.8	59.9	59.9	60.3	60.4	60.4	60,6	60.7	60.7	61.0	61.1	61.2	61.
≥ 8000		59.5	60.1	61.2	61,4	61.4	61.7	61.8	61.8	62.1	62.2	62.2	62.4	62.5	62.6	63.
≥ 7000		60.9	61.6	62.7	62.9	62.9	63.3	63.4	63.4	63,7	63.7	63.7	64.0	64.1	64.2	64.
≥ 6000		61.4	62.2	63.2	63,5	63.5	63.8	63.9	63.9	04,2	64,3	64.3	64.5	64.6	64.7	65.
≥ 5000		62.9	63.7	64.7	65.0	65.0	65.3	65.4	65.4	65.7	65,8	65.8	66.1	66.1	66.2	66.
≥ 4500		63.3	64.0	65.1	65,3	65.3	65.7	65.8	65.0	66.1	66,1	66.1	66,4	66.5	66.6	67
≥ 4000		64.0	64.7	65.8	66.1	66.1	66.5	66.6	66.6	66.8	66.9	66.9	67.2	67.3	67.4	67
≥ 3500		65.2	66.0	67.0	67,4	67.4	67.7	67.8	67.8	68 . 1	68,2	68 . 2	68.4	68.5	68.6	69
≥ 3000		67.1	67.9	69.0	69,3	69.3	59,8	69.9	69.9	70.1	70.2	70.2	70.5	70.6	70.7	71.
≥ 2500		70.1	71.0	72.1	72.7	72.8	73.2	73.3	73.3	73.6	73,7	73.7	73.9	74.0	74.1	74.
≥ 2000		72.9	73.9	74.9	75.5	75.6	76.1	76.2	76.2	76,4	76.5	76.5	76,8	76.9	77.0	77
≥ 1800		73.3	74.3	75.4	76.0	76.1	76.5	76.6	76,6	76,9	77.0	77.0	77.2	77.3	77.4	77
≥ 1500		75.7	76.7	77.8	78.6	78.7	79.3	79.3	79.3	79.6	79.7	79.7	80.0	80.1	80.1	80
≥ 1200		77.1	78.3	79.5	80.3	80.4	80.9	81.0	81.0	81,3	81.4	81.4	81.7	81.7	81.8	82.
≥ 1000		79.0	80.1	81.5	82.3	82.4	83.0	83.1	83.1	83.3	83,4	83,4	83.7	83.8	83.9	84.
≥ 900		80.1	81.5	83.1	83,9	84.0	84.6	84.7	84.7	84,9	85.0	85.0	85.3	85.4	85.5	85
≥ 800		82.3	83.6	85.3	86.1	86.2	86.8	87.0	87.0	87.2	87,3	87.3	87.6	87.7	87.8	88.
≥ 700		83.2	84.6	86.4	87,3	87.4	88.0	88.2	88.2	88,5	88,6	88.6	88,8	88.9	89.0	89
≥ 600		84.0	85.5	87.3	88,5	88.7	89.5	89.6	89.6	89.9	90.0	90.0	90.3	90.3	90.4	90
≥ 500		85.1	86.7	88.7	90.3	90.5	91.3	91.7	91.7	92,2	92.3	92.3	92.6	92.6	92.7	93
≥ 400		85.3	87.0	89.1	90.7	91.1	92.0	92.5	92.6	93,2	93.3	93.3	93.5	93.6	93.7	94
≥ 300		85.6	87.5	89.7	91.5	91.9	93.1	93.8	94.0	95.0	95.1	95.1	95.5	95.7	95.8	96
≥ 200		85.6	87.6	89.8	91.7	92.1	93.3	94.4	94.7	96,1	96.3	96.3	96.8	97.1	97.3	97
≥ 100		85.6	87.6	89.9	91.8	92.2	93.4	94.5	94.8	96.3	96.5	96.5	97.3	97.9	4	99,
≥ 100 ≥ 0		85.6	87.6	89.9	91.8	92.2	93.4	94.5	94.8	96,3	96.5	96.5	97.3	98.1	98.5	100.

TOTAL NUMBER OF OBSERVATIONS 1128

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## **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

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5703 CEILING VERSUS VISIBILITY

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	21	24	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		32.9	34.2	34.8	35.5	35.5	35.5	35.5	35.5	36.1	36.1	36.1	36.1	36.1	36.8	36.
≥ 20000		38.1	39.4	40.0	40,7	40.7	40.7	40.7	40.7	41.3	41,3	41.3	41.3	41.3	41.9	42.
≥ 18000		38.7	40.0	40.7	41.3	41.3	41.3	41.3	41.3	41.9	41.9	41.9	41.9	41.9	42.6	43.
≥ 16000		38.7	40.0	40.7	41.3	41.3	41.3	41.3	41.3	41,9	41.9	41.9	41.9	41.9	42.6	43.
≥ 14000		38.7	40.0	40.7	41.3	41.3	41.3	41.3	41.3	41,9	41.9	41.9	41.9	41.9	42.6	43.
≥ 12000		38.7	40.0	40.7	41.3	41.3	41.3	41.3	41.3	41,9	41.9	41.9	41,9	41.9	42.6	43.
≥ 10000		39.4	40.7	41.3	41.9	41.9	41.9	41.9	41.9	42.6	42.6	42.6	42,6	42.6	43.2	44.
≥ 9000		39.4	40.7	41.3	41.9	41.9	41.9	41.9	41.9	42.6	42.6	42.6	42.6	42.6	43.2	44.
≥ 8000		39.4	40.7	41.3	41.9	41.9	41.9	41.9	41.9	42,6	42.6	42.6	42.6	42.6	43.2	44.
≥ 7000		40.7	41.9	42.6	43.2	43.2	43.2	43.2	43.2	43.9	43.9	43.9	43.9	43.9	44.5	45.
≥ 6000		41.9	43.2	43.9	44.5	44.5	44.5	44.5	44.5	45.2	45.2	45.2	45.2	45.2	45.8	47.
≥ 5000		42.6	43.9	44.5	45.2	45.2	45.2	45.2	45.2	45.8	45.8	45.8	45.8	45.8	46.5	47.
≥ 4500		43.2	44.5	45.2	45.8	45.8	45.8	45.8	45.8	46.5	46.5	46.5	46.5	46.5	47.1	48.
≥ 4000		43.2	44.5	45.2	45.8	45.8	45.8	45.8	45.8	46.5	46.5	46.5	46.5	46.5	47.1	48.
≥ 3500		43.2	44.5	45.2	45.8	45.8	45.8	45.8	45.8	46.5	46.5	46.5	46.5	46.5	47.1	48.
≥ 3000		44.5	45.8	46.5	47.1	47.1	47.1	47.1	47.1	47.7	47.7	47.7	47.7	47.7	48.4	49.
≥ 2500		46.5	47.7	48.4	49.0	49.0	49.0	49.0	49.0	49.7	49.7	49.7	49.7	49.7	50.3	51.
≥ 2000		49.0	50.3	51.0	51.6		51.6	51.6	51.6	52.3	52.3	52.3	52.3	52.3	52.9	54.
≥ 1800		49.7	51.0	51.0	52.3	52.3	52.3	52.3	52.3	52.9	52.9	52.9	52.9	52.9	53.6	54.
≥ 1500		52.3	53.6	54.2	54.8	54.8	54.8	44.8	54.8	55.5	55.5	55.5	55.5	55.5	56.1	57.
		54.2	55.5	56.1	56.8	56.8	56.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	58.1	59.
≥ 1200 ≥ 1000		58.1	59.4	60.0	60.7	60.7	60.7	60.7	60.7	61.2	61.3	61.3	61.3	61.3	61.9	63.
		58.7	60.7	61.3	61.9	61.9	62.6	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.9	65.
≥ 900 ≥ 800		65.8	67.7	68.4	69.7	69.7		70.3	70.3	71.0	71.0	71.0	71.0	71.0	72.3	73.
		68.4	-	72.3	73.6		74.2	74.2	74 2	74.8	74.8	74.8	74.8	74.8	76.1	77.
≥ 700 ≥ 600		69.7	72.3	73.6				76.1	76.1	77.4	77.4	77.4	77.4	77.4	78.7	80.
					74.8	74.8	76.1	80.0	80.0	ALA	91 3	81.3	81.2	81.3	82.6	83.
≥ 500 ≥ 400		72.3	74.8	76.1	78.7	79.4	80.0	80.7		ALL	82.6	82.6	82.4	82.6	83.9	
		72.3	75.5	76.8	79.4		80.7	-	83.2	BAL		85.2	85.2	85.2	86.5	85.
≥ 300 > 200		72.9	76.1	78.1	80.7	80.7	83.2	83.2		90.	85.2	91.4	91.4	0 . 4		04
≥ 200		72.9	76.1	78.1	81.9	81.9	86.5	88.4	88.4	90,3	91.0	71.0	71.0		92.9	94.
≥ 100		72.9	76.1	78.1	81,9	81.9	86,5	88,4	88.4	90.3	92,3	92.3	92,3	92.3		
≥ 0		72.9	76.1	78.1	81.7	81.9	86.5	80.4	88.4	90.3	92.3	92.3	92.9	93.6	96.8	100.

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET

## **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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5703 CEILING VERSUS VISIBILITY

JAN 7

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

O3

CEILING							VISI	BILITY (ST	ATUTE MILI	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		24.5	25.2	26.5	26.5	26.5	27.7	27.7	27.7	27,7	27.7	27.7	27.7	28.4	29.7	29.7
≥ 20000		28.4	29.0	30.3	30.3	30.3	31.6	31.6	31.0	31.6	31.6	31.6	31.6	32.3	33.6	33.6
≥ 18000 ≥ 16000		28.4	29.0	30.3	30.3	30.3	31.6	31.6	31.6	31.6	31.6	31.6	31.6	32.3	33.6	33.6
≥ 14000 ≥ 12000		28.4	29.0	30.3	30.3	30.3	31.6	31.6	31.0	31.6	31.6	31.6	31.6	32.3	33.6	33.6
≥ 10000 ≥ 9000		29.0	29.7	31.0	31.0	31.0	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.9	34,2	34.2
≥ 8000		30.3	31.0	32.3	32.3	32.3	33.6	33.6	33.6	33,6	33.6	33.6	33,6	34.2	35.5	35.5
≥ 7000 ≥ 6000 ≥ 5000		31.6	32.9	34.2	34.2	34.2	35.5	35,5	35.5	35,5	35,5	35.5	35,5	36.1	37.4	37.4
≥ 4500 ≥ 4000		32.3 33.6 33.6	34.2	35.5	35.5	35.5	35,5	36.8	36.8	36.8	36.8	36.8	36.8	37.4	38.7	38.
≥ 3500 ≥ 3000		33.6	34.2	35.5	35.5	35.5	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	38.7	38.
≥ 2500 ≥ 2000		38.7	40.0	41.9	41.9	41.9	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.9	45.2	45.2
≥ 1800 ≥ 1500		41.3	42.6	44.5	44.5	44.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	46.5	47.7	47.
≥ 1200 ≥ 1000		49.7	51.0	52.9	52.9	52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.8	56.1	56.1
≥ 900 ≥ 800		58.1	60.0	61.9	61.9	61.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.9	65.2	65.2
≥ 700 ≥ 600		63.2	68.4	72.3	68,4	68.4	70.3	70.3	70.3	70.3	70.3	70.3	71.0	71.6	72.9	72.9
≥ 500 ≥ 400		67.1	70.3	74.8	74.8	74.8	76.8	77.4	77.4	7714	77.4	77.4	78.1	78.7	80.0	80.0
≥ 300 ≥ 200		69.0	74.2	78.7	80.7	80.7	83.9	84.5	84.5	85.2	85.2	85.2	85.8	90.3	92.3	87.7
≥ 100 ≥ 0		69.0	74.2	78.7	81.3	81.9	85.2	86.5	86.5	88,4	89.7	89.7	91.6	92.9	94.8	96.8

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMC

#### **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0

5703 CEILING VERSUS VISIBILITY 1

1

1488

0

9

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		24.5	25.8	27.1	27.7	27.7	27.7	27.7	27.7	31.0	28.4	28.4	28.4	28.4	29.0	29.7
≥ 18000 ≥ 16000		27.7	29.0	30.3	31.0		31.0	31.0	31.0	31.0	31.6	31.6	31.6	32.3	32.9	33.6
≥ 14000 ≥ 12000		27.7	29.0	30.3	31.0	31.0	31.0	31.0	31.0	31.0	31.6	31.6	31.6	32.3	32.9	33.6
≥ 10000 ≥ 9000		29.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.9	32.9	32.9	33.6	34.2	34.8
≥ 8000 ≥ 7000		29.7	31.0	32.3	34.2	34.2	32.9	34.2	32.9	32.9	33.6	33.6	33.6	34.2	34.6	35.5
≥ 6000 ≥ 5000		31.0	32.3	34.2	34.2	34.2	34.2	34.2	34.8	34,2	34.8	35,5	34.8	35.5	36.8	36.8
≥ 4500 ≥ 4000		31.6	32.9	34.8	34.8	34.8	34.8	34.8	34.8	34.8	35.5	35.5	35.5	36.1 36.8	36.8	37.4
≥ 3500 ≥ 3000		31.6	32.9	35.5	35.5	35.5	36.8	36.8	36.8	36,8	36.8	36.8	36.8	37.4	38.1	39.6
≥ 2500 ≥ 2000		33.6	34.8	36.8	37.4	43.2	38.1	38.1	38.1	38.1	38,7	38.7	38.7	39.4	40.0	40.7
≥ 1800 ≥ 1500		41.3	42.6	44.5	45.2	45.2	45.8	49.7	45.8	45.8	50.3	50.3	50.3	51.0	51.6	48.4
≥ 1200 ≥ 1000		48.4	51.0 55.5	57.4	53.6	58.1	54.2	54.2	54.2	54.8	55.5	55.5	55.5	56.1	56.8	57.4
≥ 900 ≥ 800		58.1	60.7	62.6	63.2	63.2	67.1	63.9	63.9	64.5	65,2	69.0	69.0	65.8	70.3	67.1
≥ 700 ≥ 600		62.6	65.2	67.1	72.3	72.3	72.9	69.0	72.9	70.3	71.0	71.0	71.0 74.8	71.6	72.3	72.9
≥ 500 ≥ 400		66.5	71.6	74.8	76.1	76.8	76.8	77.4	77.4	78.7	79.4	81.3	81.9	80.0	80.7	81.3
≥ 300 ≥ 200		66.5	71.6	76.1	78.1	78.1 78.1	79.4	80.0	80.7	82,6	83.2	84.5	84,5	85.2	85.8	86.5
≥ 100 ≥ 0		66.5	71.6	76.1	78.1	76.1 78.1	80.0	80.7	80.7	83,9	85.8	85.8	89.0	91.0	92.9	93.6

TOTAL NUMBER OF OBSERVATIONS

155

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MAR

5703 CEILING VERSUS VISIBILITY JAN 7

09

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		21.9	21.9	22.6	22.6	23.2	23.2	23.2	23.2	23,2	23.2	23.2	23.2	23.2	23.2	23.
≥ 18000 ≥ 16000		25.8	25.8	26.5	26.5	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.
≥ 14000 ≥ 12000		25.8	25.8	26.5	26.5	27.1	27.1	27.1	27.1	27.1	27,1	27.1	27.1	27.1	27.1	27.
≥ 10000 ≥ 9000		31.0	31.0		31.6	32.3	32,3	32.3	32.3	32.3	32,3	32.3	32.3	32.3	32.3	32.
≥ 8000 ≥ 7000		31.0	31.0	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.
≥ 6000 ≥ 5000		32.3	32.3	32.9	33.6	34.2	34.2	34.2	34.2	34,2	34.2	34.2	34.2	34.2	34.2	34.
≥ 4500 ≥ 4000		32.9	32.9	33.6	34.2	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.
≥ 3500 ≥ 3000		33.6	34.2	35.5	36.1	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.
≥ 2500 ≥ 2000		36.8	37.4	38.7	39,4	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.
≥ 1800 ≥ 1500		40.7	41.9	43.2	43.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.
≥ 1200 ≥ 1000		49.7	52.9	54.2	55.5	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.
≥ 900 ≥ 800		54.8	59.4	61.9	65.8	66.5	67.1	67.7	67.7	70.3	67.7	70.3	67.7	67.7	67.7	67.
≥ 700 ≥ 600		56.8	61.9	67.7	72.9	74.2	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.
≥ 500 ≥ 400		57.4	64.5	71.6	76.8	78.7	80.0	80.7	80.7	81.9	81.9	81.9	81.9	81.9	81.9	81.
≥ 300 ≥ 200		57.4	64.5	74.8	80.7	83.2	86.5	89.7	90.3	92.9	93.6	93.6	93.6	93.6	93.6	93.
≥ 100 ≥ 0		57.4	64.5	74.8	80.7	83.2	87.1	90.3	91.0	94.2	96.1	96.1	98.1	98.1		100.

TOTAL NUMBER OF OBSERVATIONS

155

## **CEILING VERSUS VISIBILITY**

12925

2

CHASE FIELD, TEXAS

73-77

MAR

12

0

5703 CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		27.7	27.7	27.7	27.7	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.
≥ 20000		38.7	38.7	38.7	38.7	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39,4	39.4	39.4	39.
≥ 18000		38.7	38.7	38.7	38,7	39.4	39.4	39.4	39.4	39.4	39.4	39,4	39.4	39.4	39.4	39.
≥ 16000		38.7	38.7	38.7	38,7	39.4	39.4	39.4	39.4	3994	39.4	39.4	39.4	39.4	39.4	39.
≥ 14000		38.7	38.7	38.7	38.7	39.4	39.4	39.4	39.4	39 9 4	39.4	39.4	39.4	39.4	39.4	39.
≥ 12000		39.4	39.4	39.4	39.4	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40,0	40.0	40.0	40.
≥ 10000		41.3	41.3	41.3	41.3	41.9	41.9	41.9	41.7	4163	41.9	41.9	41.9	41.9	41.9	41.
≥ 9000		41.3	41.3	41.3	41.5	41.9	41.9	41.9	41.9	41.4	41.9	41.9	41.4	41.9	41.9	41.
≥ 8000		42.6	42.6	42.0	42.6	43.2	43.2	43.2	43.2	43.2	43.9	43.2	43.2	43.2	43.2	43.
≥ 7000		43.2	43.2	43.2	43.2	43.9	43.9	45.7	43.9	4309		43.9		43.9	43.9	43.
≥ 6000		45.2	45.2	47.2	45.2	40.0	45.8	45.0	45.0	43.0	45.8	45.8	45.8	45.8	45.8	45.
≥ 5000		45.8	45.8	45.0	45.0	40.5	46.5	40.5	40.2	40,5	40.5	40.5	40.5	40.5	40.5	40.
≥ 4500		45.8	45.8	45.8	45.8	40.5	46.5	40.5	46.5	40.5	40.5	40.5	40.5	40.5	40.5	46.
≥ 4000		46.5	46.5	40.5	40.5	47.1	47.1	41.1	47.1	4101	47.1	47.1	47.1	4101	41.1	47.
≥ 3500		47.1	47.1	47.1	4/21	41.1	47.7	41.1	91.1	4191	41.1	2101	81.0	41.1	41.1	41.
≥ 3000		50.3	50.3	50.3	50.3	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	21.0	51.0	51.
≥ 2500 ≥ 2000		57.4	57.4	57.4	57.4	58.1	58.1	58.1	58.1	69.0	69.0		69.0	50.1	1000	
		68.4	68.4	68.4	48.4	69.0	69.0	69.0	69.0	100	4.00	69.0	69.0	69.0	69.0	69.
≥ 1800 ≥ 1500		68.4	68.4	68.4	68.4	78.1	69.0	78.1	69.0	78.1	78.1	78.1	78.1	78.1	78.1	69.
		76.8	77.4	77.4	77.4	78.1	78.1	81.9	78.1	81.9	81.9	84.0			81.9	
≥ 1200 ≥ 1000		80.7	81.3	81.3	81.3		81.9	200		85.2		85.2	81.9	81.9		81.
		83.2	83.9	83.9	86.5	85.2	85.2	85.2	85.2	88.4	85.2	88.4	88.4	88.4	88.4	88.
≥ 900 ≥ 800		85.2	85.8	86.5	87.7	89.0	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90
		85.8	87.1	87.7	89.0	-	90.3	91.6	91 6	91.4	91.6	91.4	91.6	91.4	91.6	91.
≥ 700 ≥ 600		85.8	87.1	88.4	00 7	90.3	91.6	92.3	92.3	92.2	92.3	92.3	92.3	92.3	92.3	92
			87.7	89.0	91.0	92.3	92.3	93.6	93.6	93.4	93.6	93.6	93.6	93.6	92.4	93
≥ 500 ≥ 400		86.5	87.7	89.0	91.0	92.3	93.6	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97
		86.5	87.7	89.0	91.0	92.3	96.1	98.1	98 1	99.4	99.4	99.4	99.4	99.4	99.4	99
≥ 300 ≥ 200		86.5	87.7	89.0	91.0	92.3	96.8	98.7	98.7	100.0	100.0	100.0				
		86.9	87.7	89.0	91.0	92.3	96.8	98.7	98.7		100.0					100
≥ 100 ≥ 0		86.5	87.7	89.0	91.0	92.3	96.8	98.7	98 7		100.0					
-		00.3	4101	9700	71.0	1003	96.8	2001		10010		. 00 . 0	-0410			.00

TOTAL NUMBER OF OBSERVATIONS

155

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		32.3	32.3	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 20000		47.7	47.7	48.4	48.4	48.4	48.4	48.4	48.4	48 . 4	48.4	48.4	48,4	48.4	48.4	48.4
≥ 18000 ≥ 16000		47.1	47.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 14000 ≥ 12000		49.0	49.0	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
		50.3	51.0	51.6	51.6		51.6		51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 10000 ≥ 9000		51.0	51.0	51.6	51.6	51.6	51.6	51.6	51.0	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 8000		51.6	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 7000		52.9	52.9	53.0	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 6000 ≥ 5000		53.6	53.6	54.2	54.2		54.2	54.2	54.2	55.5	54.2	54.2	54.2	54.2	54.2	54.2
		55.5	55.5	56.1	55.5	55.5	55.5	50.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 4500 ≥ 4000		58.1	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 3500		58.7	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59,4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 3000		61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	02.6	62,6	62.6	02.0	02.0	62.6	62.6
≥ 2500 ≥ 2000		74.2	74.8	70.3	70.3	70.3	70.3	75.5	70.3	75.5	75.5	75.5	75.5	75.5	70.3	70.3
≥ 1800	,	76.1	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 1500		85.2	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1200 ≥ 1000		89.7	90.3	91.6	91,6	91.6	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 900		90.3	91.6	93.6	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	
≥ 800		91.0	91.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 700 ≥ 600		91.0	91.6	93.6	94,2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
		91.6	92.3	94.8	95.5	95.5	95.5	95.5	95.5	7295	95.5	95.5	95.5	95.5	95.5	95.5
≥ 500 ≥ 400		92.9	93.6	96.1	96,8	96.8	98.1	97.4	97.4	98.7	98.7	98.1	98.7	98.1	98.1	98.1
≥ 300		93.6	94.2	97.4	98.1	98.1	98.7	98.7	99.4	100:0	100.0	100.0	100.0	100.0		100.0
≥ 200		93.6	94.2	97.4	98.1	98.1	98.7	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		93.6	94.2	97.4	98.1	98.1	98.7	98.7	99.4	100,0	100.0	100.0				100.0

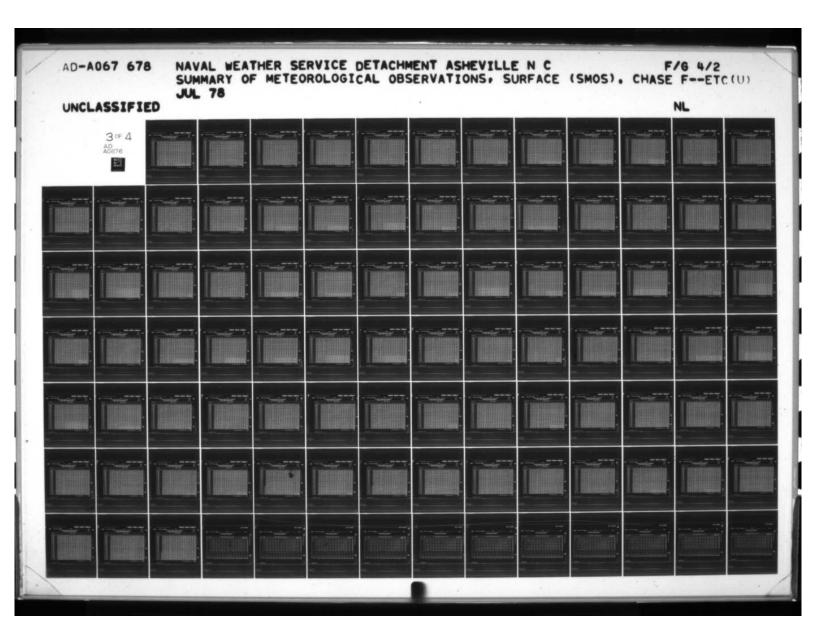
TOTAL NUMBER OF OBSERVATIONS

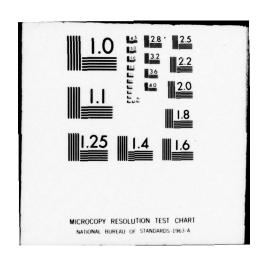
155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

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## **CEILING VERSUS VISIBILITY**

12925 CHASE FIELD, TEXAS

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5703

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	BILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		41.3	41.3	41.9	41,9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 18000		56.8	57.4	58.1	58.1	58.1	58,1	58.1	58.1	58,1	58,1	58.1	58,1	58.1	58.1	58.1
≥ 16000 ≥ 14000		56.8	57.4	59.4	58.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 12000		58.1	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59,4	59.4	59.4	59.4	59.4
≥ 10000 ≥ 9000		60.7	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 8000 ≥ 7000		63.2	63.9	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65,2	65.2	65,2	65.2	65.2	65.2
≥ 6000		64.5	65.2	65.8	66,5	66.5	66,5	66.5	66.5	66,5	66,5	66.5	66.5	66.5	66.5	66.5
≥ 5000		66.5	67.7	68.4	69,0	69.0	68.4	69.0	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 4500 ≥ 4000		67.7	68.4	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 3500 ≥ 3000		71.6	72.3	70.3	71.0	71.0	71.0	71.0	71.0	73.6	71.0	71.0	71.0	71.0	71.0	71.0
≥ 2500 ≥ 2000		76.1 80.7	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 1800		82.6	83.2	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1500 ≥ 1200		83.9	90.3	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1000		91.0	92.3	93.6	94.2	94.2	94.2	94.2	94.2	94,2	94.2	94.2	94,2	94.2	94.2	94.2
≥ 900 ≥ 800		91.0	92.3	93.6	94.8	94.2	94.8	94.8	94.8	9412	94.8	94.8	94.8	94.8	94.8	94.2
≥ 700 ≥ 600		92.3	93.6	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 500		92.9	94.2	95.5	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 400 ≥ 300		93.6	94.8	96.1	96.8	96.8	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200		93.6	94.8	96.1	96.8	96,8	99,4	99.4	99.4	- Control - L		to the district the state of	100.0		100.0	
≥ 100 ≥ 0		93.6	94.8	96.1	96.8	96.8	99.4	99.4	99.4	100.0			100.0			

TOTAL NUMBER OF OBSERVATIONS

155

## **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21

0

0

5703 CEILING VERSUS VISIBILITY JAN 78

0

CEILING							VISI	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		38.7	39.4	39.4	40.0	40.7	41.3	41.3	41.3	41.3	41,3	41.3	41.3	41.9	41.9	41.9
≥ 20000		45.8	46.5	46.5	47.1	47.7	48.4	48.4	48.4	48,4	48,4	48.4	48,4	49.0	49.0	49.0
≥ 18000 ≥ 16000		45.8	46.5	46.5	47.1	47.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	49.0	49.0	49.0
≥ 14000 ≥ 12000		46.5	47.1	47.1	47.7	48.4	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.7	49.7	49.7
≥ 10000 ≥ 9000		46.5	47.1	47.1	47.7	48.4	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.7	49.7	49.7
≥ 8000 ≥ 7000		46.5	47.1	47.1	47.7	48.4	49.0	49.0	49.0	49:0	49.0	49.0	49.0	49.7	49.7	49.7
≥ 6000 ≥ 5000		49.7	50.3	50.3	51.0	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.9	52.9	52.9
≥ 4500 ≥ 4000		51.0	51.6	51.6	52.3	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	54.2	54.2	54.2
≥ 3500 ≥ 3000		51.6	52.3	52.3	52,9	53,6	54.2	54.2	54.2	54,2	54.2	54.2	54.2	54.8	54.8	54.8
≥ 2500 ≥ 2000		54.8	55.5	55.5	56.1	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	58.1	58.1	58.1
≥ 1800 ≥ 1500		58.7	59.4	59.4	60.7	60.7	61.3	61.3	61.3	61.3	61.9	61.3	61.3	61.9	61.9	61.9
≥ 1200 ≥ 1000		65.2	61.3	61.3	61.9	62.6	67.7	63.2	63.2	63.2	63.2	63.2	63.2	63.9	68.4	63.9
≥ 900 ≥ 800		71.6	72.3	72.3	72.9	73.6	74.2	74.2	74.2	74,2	74,2	74.2	74.2	74.8	74.8	74.8
≥ 700 ≥ 600		79.4	82.6	83.9	84.5	85.2	85.8	85.8	85.8	85.8	85,8	85.8	85.8	86.5	86.5	86.5
≥ 500 ≥ 400		83.2	87.7	90.3	90.3	91.6	92.9	92.9	92.9	92,9	92.9	92.9	92.9	93.6	93.6	93.6
≥ 300 ≥ 200		83.9	89.7	91.6	94.8	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.1	98.1	98.1
≥ 100 ≥ 0		83.9	89.7	91.6	94.8	96.1	97.4	97.4	97.4	97.4	98.1	98.1	98.7	99.4		100.0

TOTAL NUMBER OF OBSERVATIONS 15

## **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

YEARS

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL HOURS (L S.T.)

0

5703 CEILING VERSUS VISIBILITY JAN 78

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		30.5	31.0	31.6	31,9	32.1	32.3	32.3	32.3	32.4	32.5	32.5	32.5	32.7	33.0	33.1
≥ 20000		38.6	39.1	39.8	40.0	40.2	40.5	40.5	40.5	40.6	40.7	40.7	40.7	40.9	41.2	41.4
≥ 18000 ≥ 16000		38.7	39.3	39.9	40.2	40.4	40.7	40.7	40.7	40.7	40.8	40.8	40.8	41.2	41.4	41.5
≥ 14000 ≥ 12000		39.1	39.7	40.9	40.6	40.8	41.1	41.6	41.1	41.1	41.8	41.8	41.8	41.5	41.8	41.9
≥ 10000 ≥ 9000		41.0	41.5	42.2	42.4	42.7	42.9	42.9	42.9	43.0	43.1	43.1	43.1	43.3	43.6	43.9
≥ 8000 ≥ 7000		41.8	42.3	43.0	43.3	43.6	43.8	43.8	43.8	43.9	44.0	44.0	44,0	44.2	44.5	44.8
≥ 6000 ≥ 5000	_	43.8	44.4	45.0	45.4	45.7	45.9	45.9	45.9	46.0	46.1	46.1	46.1	46.3	46.6	46.9
≥ 4500		45.0	45.6	46.3	46.7	46.9	47.2	47.2	47.2	47,3	47,3	47.3	47.3	47.6	47.9	48.2
≥ 4000 ≥ 3500 ≥ 3000		45.6	46.7	47.5	47.9	49.2	48.5	48.5	48.5	48.6	48.6	48.6	48.6	48.9	49.2	49.4
≥ 2500 ≥ 2000		51.6	56.9	53.3	53.7	54.0	54.3	54.3	54.3	54.4	54.4	54.4	54.4	54.7	59.5	55.2
≥ 1800 ≥ 1500		57.3	58.2	59.1	59.5	59.8	65.0	65.0	60.1	60.2	60.2	65.2	60.2	65.4	60.8	61.1
≥ 1200 ≥ 1000		65.2	70.1	67.7	68.2	68.5	68.9	68.9	68.9	72.9	73.0	73.0	73.0	73.2	69.7	69.9
≥ 900 ≥ 800		71.0	72.7	74.1	75.0	75.3	75.9	76.0	76.0	76.1	76.2	76.2	76.2	76.5	76.8	77.0
≥ 700 ≥ 600		74.9	77.3	79.4	80.8	81.2	81.9	82.0	82.0	84.8	82.3	82.3	82.4	82.7	83.1	83.3
≥ 500 ≥ 400		77.2	80.5	83.4	85.1	85.7	86.9	87.1	87.1	87.7	90.1	90.1	90.2	90.5	90.9	91.1
≥ 300 ≥ 200		77.9	81.6	85.2	87.6	88.2	90.6	91.3	91.5	92.7	92.9	92.9	93.2	93.4	93.8	94.0
≥ 100 ≥ 0		77.9	81.6	85.2	87.8	88.6	91.4	92.5	92.7	94.3	95.2	95.2	96.2	96.7	97.6	

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMO

0

0

## **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

APR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S T

)

0

5703 CEILING VERSUS VISIBILITY JAN 7

CEILING							VISI	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		38.0	38.7	40.0	40.7	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.
≥ 20000		41.3	42.0	43.3	44.0	44.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.
≥ 18000		41.3	42.0	43.3	44.0	44.0	44.7	44.7	44.7	4497	44.7	44.7	44.7	44.7	44.7	44.
≥ 16000		41.3	42.0	43.3	44.0	44.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.
≥ 14000		41.3	42.0	43.3	44.0	44.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.
≥ 12000		4103	42.0	43.3	44.0	44.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.
≥ 10000		42.0	42.7	44.0	44.7	44.7	46.0	46.0	46.0	40,0	46.0	46.0	46.0	46.0	46.0	46,
≥ 9000		42.0	42.7	44.0	44,7	44.7	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.
≥ 8000		42.7	43.3	44.7	45.3	45.3	46.7	46.7	46.7	4697	46.7	46.7	46.7	46.7	46.7	46.
≥ 7000		43.3	44.0	45.3	46.0	46.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.
≥ 6000		43.3	44.0	45.3	46.0	46.0	47.3	47.3	47.3	47.3	47,3	47.3	47,3	47.3	47.3	47.
≥ 5000		44.7	45.3	46.7	47.3	47.3	48.7	48.7	48.7	48,7	48.7	48.7	48,7	48.7	48.7	48.
≥ 4500		44.7	45.3	46.7	47.3	47.3	48.7	48.7	48.7	48 . 7	48.7	48.7	48.7	48.7	48.7	48.
≥ 4000		47.3	48.0	49.3	50.0	50.0	51.3	51.3	51.3	51.3	51,3	51.3	51.3	51.3	51.3	51.
≥ 3500		47.3	48.0	49.3	50,0	50.0	51.3	51.3	51.3	51,3	51,3	51.3	51.3	51.3	51.3	51.
≥ 3000		48.0	48.7	50.0	50,7	50.7	52.0	52.0	52.0	52,0	52.0	52.0	52.0	52.0	52.0	52.
≥ 2500		48.7	50.0	51.3	52,0	52.0	53.3	53.3	53.3	53.3	53.3	53.3	53,3	53.3	53.3	53.
≥ 2000		51.3	52.7	54.0	54.7	54.7	56.0	56.0	56.0	56.0	56.0	56.0	56,0	56.0	56.0	56.
≥ 1800		51.3	52,7	54.0	54,7	54,7	56.0	56.0	56,0	20.0	56.0	56.0	50.0	56.0	56.0	56.
≥ 1500		54.7	56.0	57.3	58.0	58.0	59.3	59.3	59.3	59.3	59.3	59.3	59,3	59.3	59.3	59.
≥ 1200		56.0	57.3	58.7	59,3	59.3	60.7	60.7	60.7	60.7	60,7	60.7	60.7	60.7	60.7	60.
≥ 1000		62.7	65.3	66.7	67.3	67.3	68.7	68.7	68.7	68 9 7	68.7	68 . 7	68.7	68.7	68.7	68.
≥ 900		66.0	68.7	70.0	70,7	70.7	72.0	72.0	72.0	72.0	72,0	72.0	72.0	72.0	72.0	72.
≥ 800		74.7	77.3	78.7	79.3	79.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.
≥ 700		76.7	80.0	82.0	82.7	82.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.
≥ 600		80.7	85.3	88.0	89.3	89.3	90.7	90.7	90.7	90,7	90.7	90.7	90.7	90.7	90.7	90.
≥ 500		81.3	86.7	89.3	91,3	91.3	92,7	92.7	92.7	92.7	92,7	72.7	92.7	72.7	92.7	92.
≥ 400		82.7	88.0	91.3	94.0	94.0	95.3	96.0	96.0	70,7	96.7	76.7	96.7	96.7	96.7	96.
≥ 300		82.7	88.0	92.0	94.7	94.7	96,0	96.7	96.7	77.3	97.3	77.3	97.3	97.3	97.3	97.
≥ 200		82.7	88.0	92.0	94.7	94.7	96.0	96.7	96.7	98,0	98.0	98,0	98.0	98.0	98.0	98.
≥ 100 ≥ 0		82.7	88.0	92.0	94,7	94.7	96.0	96.7	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.
≥ 0		82.7	88.0	92.0	94.7	94.7	96.0	96.7	96.7	98.0	98.0	98.0	98.0	98.0	98.7	100.

TOTAL NUMBER OF OBSERVATIONS 150

# **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
O CEILING		28.7	30.0	32.7	35.3	35.3	38.0	38.0	38.0	38,7	38.7	38.7	38,7	38.7	38.7	40.0
≥ 20000		31.3	33.3	36.0	38,7	38.7	41.3	41.3	41.3	42.0	42.0	42.0	42.0	42.0	42.0	43.3
≥ 18000		31.3	33.3	36.0	38,7	38.7	41.3	41.3	41.3	42.0	42.0	42.0	42.0	42.0	42.0	43.3
≥ 16000		31.3	33.3	36.0	38.7	39.7	41.3	41.3	41.3	42.0	42.0	42.0	42,0	42.0	42.0	43.3
≥ 14000		31.3	33.3	36.0	38.7	38.7	41.3	41.3	41.3	42.0	42.0	42.0	42.0	42.0	42.0	43.3
≥ 12000		31.3	33.3	36.0	38.7	38.7	41.3	41.3	41.3	42.0	42.0	42.0	42.0	42.0	42.0	43.3
≥ 10000		32.0	34.0	36.7	39.3	39.3	42.0	42.0	42.0	43.3	43.3	43.3	43.3	43.3	43.3	44.7
≥ 9000		32.0	34.0	36.7	39.3	39.3	42.0	42.0	42.0	43.3	43.3	43.3	43.3	43.3	43.3	44.7
≥ 8000		32.7	34.7	37.3	40.0	40.0	42.7	42.7	42.7	44,0	44.0	44.0	44.0	44.0	44.0	45.3
≥ 7000		32.7	34.7	37.3	40.0	40.0	42.7	42.7	42.7	44.0	44.0	44.0	44.0	44.0	44.0	45.3
≥ 6000		33.3	35.3	38.0	40.7	40.7	43.3	43.3	43.3	44.7	44.7	44.7	44.7	44.7	44.7	46.0
≥ 5000		34.0	36.0	38.7	41.3	41.3	44.0	44.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	46.7
		34.0	36.0	38.7	41.3	41.3	44.0	44.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	46.7
≥ 4500 ≥ 4000		34.0	36.7	39.3	42.0	42.0	44.7	44.7	44.7	46.0	46.0	46.0	46.0	46.0	46.0	47.3
		35.3	38.0	40.7	43.3	43.3	46.0	45.0	46.0	47.3	47.3	47.3	47.3	47.3	47.3	48.7
≥ 3500 ≥ 3000		36.7	40.0	42.7	45.3	45.3	48.0	48.0	48.0	49.3	49.3	49.3	49.3	49.3	49.3	50.7
		36.7	40.7	43.3	46.0	46.0	48.7	48.7	48.7	50.0	50.0	50.0	50.0	50.0	50.0	51.3
≥ 2500 ≥ 2000		42.0	46.0	48.7	51.3	51.3	54.0	54.0	54.0	55.3	55.3	55.3	55.3	55.3	55.3	56.7
		43.3	47.3	50.0	52.7	52.7	56.2	55.3	55.3	56.7	56.7	56.7	56.7	56.7	56.7	58.0
≥ 1800 ≥ 1500		46.0	50.7	53.3	56.0	56.0	58.7	58.7	58.7	60.7	60.7	60.7	60.7	60.7	60.7	62.0
		50.7	55.3	58.0	60.7	60.	63.3	43.3	63.3	65.3	65.3	65.3	65. 3	65.3	65.3	66.7
≥ 1200 ≥ 1000		56.7	61.3	64.0	66.7	66.7	69.3	49.2	69.3	71.3	71.3	71.3	71.3	71.3	71.3	72.7
		59.3	64.0	66.7	49.3	49.3	72.0	72.0	72.0	74.0	74.0	74.0	74.0	74.0	74.0	75.3
≥ 900 ≥ 800		65.3	70.0	73.3	76.7	76.7	79.3	79.3	79.3	81.3	81.3	81.3	81.3	81.3	81.3	82.7
		67.3	72.7	76.0	79.3	79. 2	82.0	82.0	82.4	84.0	86.0	84.0	84.0	84.0	84.0	85.3
≥ 700 ≥ 600		69.3	74.4	78.7	82.0	82.0	84.7	85.2	85.2	87.2	87.2	87.2	87.3	87.3	87.3	88.7
	-	70.7	76.0	80.0	92.3	83.3	84.7	88.0	88.0	90.7	90.7	90.7	90.7	90.7	90.7	92.0
≥ 500 ≥ 400			70.0	82 7	94 0	94 0	900	90.7	90.7	93.2	94.0	94.0	94.0	94.0	94.0	95.2
		72.7	70.0	42 4	86.0	86.0	89.3	91.1	91	04.5	04.7	34.7	94. 7	94.7	94.7	64.5
≥ 300 ≥ 200		72.7	78.0	82.7	86.0	86.0	90.0	92 3	92. 7	95.0	94	94.0	96.0	94.0	94.0	70.0
		72.7	70.1	0205	07.3	07.3	71.3	92.7	92.	95.3	96.0	90.0		96.0	96.0	97.3
≥ 100 ≥ 0		72.7	7007	03.3	0103	07.4	11.3	42.1	92.7	70.7	97,3	97.9	98.0	98.0	98.0	
2 0		72.7	1001	93.3	07.3	01.3	71.3	76.1	76.1	7017	7103	7103	70.1	700/	70.1	100.0

TOTAL NUMBER OF OBSERVATIONS

0

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DIRNAVOCEANMET

## **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

APR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

D6

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5703 CEILING VERSUS VISIBILITY JAN 7

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CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/4	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		19.3	21.3	24.0	25.3	25.3	26.7	26.7	26.7	26,7	26.7	26.7	27.3	28.0	28.7	29.3
≥ 18000 ≥ 16000		22.0	24.0	26.7	28.0	28.7	30.7	30.7	30.7	31,3	31.3	31.3	32.0	32.7	33.3	34.0
≥ 14000 ≥ 12000		22.0	24.0	26.7	28.0	28.7	30.7	30.7	30.7	31,3	31.3	31.3	32.7	32.7	33.3	34.
≥ 10000 ≥ 9000		23.3	26.0	28.7	30.7	31.3	33.3	33.3	33.3	34,7	34.7	34.7	35.3	36.0	36.7 36.7	37.
≥ 8000 ≥ 7000		26.0	28.7	31.3	33,3	34.0	36.0	36.0	36.0	37.3	37.3	37.3	38.0	38.7	39.3	40.
≥ 6000 ≥ 5000		26.7	29.3	32.0	34.0	34.7	36.7 38.7	36.7	36.7	40.0	38,0	38.0	38.7	39.3	40.0	40.
≥ 4500 ≥ 4000		28.7	31.3	34.7	36.0	36.7	38,7	39.3	39.3	40,7	40.0	40.0	40,7	41.3	42.0	42.
≥ 3500 ≥ 3000		31.3	34.7	37.3	39,3	40.7	42.7	42.0	42.7	44.0	43.3	43,3	44.7	45.3	45.3	46.
≥ 2500 ≥ 2000		32.7	36.7	39.3	42.0	47.3	44,7	49.3	49.3	50,7	50.7	50.7	51.3	52.0	52.7	53.
≥ 1800 ≥ 1500		36.0	40.7	43.3	52.0	52.7	57.3	50.0	57.3	58,7	51.3	51.3	59.3	52.7	53.3	61.
≥ 1200 ≥ 1000		44.0	52.7	57.3	56,0	62.0	62.0	68.7	62.0	70.0	70.0	70.0	70.7	71.3	72.0	72.
≥ 900 ≥ 800		50.7	56.7	62.0	62.7	63.3	70.0	70.0	70.0	71,3	71.3	71.3	72.0	77.3	73.3	74.
≥ 700 ≥ 600		51.3	59.3	65.3	70.0	70.7	76.0	76.0	76.0	77.3	78,0	78.0	78,7	79.3	84.0	84.
≥ 500 ≥ 400		54.7	62.0	70.0	73.3	74.0	82.0	82.7	82.7	88,7	90.0	90.0	90.7	91.3	92.0	92.
≥ 300 ≥ 200		54.7	63.3	70.0	76.0	77.3	86.0	90.7	90.7	90.7	92.0	95.3	92.7	93.3	94.0	98.
≥ 100 ≥ 0		55.3	63.3	71.3	77.3	78.7	88.7	90.7	90.7	94.0	96.0	96.0	98.0			98.

TOTAL NUMBER OF OBSERVATIONS 150

## **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

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5703 CEILING VERSUS VISIBILITY

JAN 78

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

09

NO CEILING  ≥ 20000  32	CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
≥ 20000  32.0 32.7 32.7 32.7 32.7 32.7 32.7 32.7 32.7	(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
≥ 18000	O CEILING		26.7	26.7	26.7	26.7	26.7	26.7	20.7	26.7		26.7	26.7	26.7	26.7	26.7	26.7
≥ 16000   33.3 34.0 34.0 34.0 34.0 34.0 34.0 34.0	≥ 20000		32.0	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32,7	32,7	32.7	32.7	32.7	32.7	32.7
≥ 14000   33.3   34.0									34.0		24	34.0			34.0	34.0	34.0
≥ 12000     33.3 34.0 34.0 34.0 34.0 34.0 34.0 3					-	-			36.0	34.0	34.0	34.0			34.0	34.0	34.
≥ 10000 ≥ 9000 35.3 36.7 36.7 36.7 36.7 36.7 36.7 36.7 36					100 100 100 100	1.7				34.0	34.0	1.11			34.0	34.0	34.
≥ 9000  35.3 36.7 36.7 36.7 36.7 36.7 36.7 36.7 36	≥ 10000									36.7	36,7	36.7	36.7	36.7	36.7	36.7	36.
$ \begin{array}{c} \geq 7000 \\ \geq 70$			35.3	36.7	36.7		36.7		36.7	36.7	36,7	36.7	36.7	36.7	36.7	36.7	36.
≥ 7000   36.7 38.0 38.0 38.0 38.0 38.0 38.0 38.7 38.7 38.7 38.7 38.7 38.7 38.7 38.7	≥ 8000		36.0	37.3	37.3	37.3	37.3	37.3	38.0	38.0	38 . 0	38,0	38.0	38.0	38.0	38.0	38.
$ \begin{array}{c} \geq 5000 \\ \geq 4500 \\ \geq 4500 \\ \geq 4500 \\ \geq 4000 \\ \geq 40$	≥ 7000			38.0	38.0	38.0	36.0	38.0	38.7				38,7	38,7	38.7	38.7	38.
$ \begin{array}{c} \geq 4500 \\ \geq 4000 \\ \geq 3500 \\ \geq 3500 \\ \geq 3000 \\ \geq 30$			38.7	40.0	40.0	40.0	40.0	40.0	40.7			40.7	40.7	40.7	40.7	40.7	40.
$ \begin{array}{c} \geq 4000 \\ \geq 4000 \\ \geq 4000 \\ \geq 3000 \\ \geq 30$	≥ 5000			42.0	42.0	-			42.7		42.7	42.7	42.7	42,7	42.7	42.7	42.
				43.3	43.3				7.47	44 0		46.0			46.0	44.0	44.
$ \begin{array}{c} \geq 2500 \\ \geq 2000 \\ \geq 2000 \\ \geq 2000 \\ \geq 3000 \\ \geq 30$			44.7			46.0		46,0	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.
$\begin{array}{c} \geq 2000 \\ \geq 1800 \\ \geq 180$	2 3000				-		_		41.3	41.3	50.7	50 7	50.7	80 7	50 7	50.7	50
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					70.00					4	54.7			54.7	54.7	54.7	50.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	> 1800	-						-	-	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				60.0	61.3		62.0	62.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			62.0	65.3	67.3	68.0	68.0	-	69.3	69.3	69,3	69.3		69.3	69.3	69.3	69.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	≥ 1000		65.3	-					74.7	74.7	7497	74.7	74,7	74,7	74.7	74.7	74.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				72.7			407		78.7	78.7	7007	78,7	78.7	70.7	78.7	78.7	78.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 800			75.3					87.3	05.3	97.9	07.3	87.3	02,3	97.3	07.3	87.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				77.3	120 750 100 100		200	The second second	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			-	77.3		A 41 -			The state of the state of		92.7			92.7		92.7	92.
≥ 300 70.7 77.3 86.7 92.7 92.7 97.3 99.3 99.3 99.3 99.3 99.3 100,0100			-					94.7			95.3	95,3		95.3	95.3	95.3	95.
≥ 200   70.7 77.3 86.7 92.7 97.3 97.3 97.3 97.3 97.3 97.3 97.3 97			70.7	Control of the Contro	86.7	A	40 4 40		99,3	99,3	99.3			2			
	≥ 200		70.7	77.3					99,3	99.3	4443						
≥ 100 ≥ 0 70.7 77.3 86.7 92.7 92.7 97.3 99.3 99.3 99.3 99.3 99.3 100.0100	≥ 100			77.3		4	10 mm	2	99,3	99,3	97,3						

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

## **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		32.7	32.7	32.7	32,7	32.7	32.7	32.7	32.7	32,7	32.7	32.7	32,7	32.7	32.7	32.
≥ 20000		39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39,3	39.3	39.3	39,3	39.3	39.3	39.
≥ 18000		40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40,0	40.0	40.0	40.
≥ 16000		40.0	40.0	40.0	40.0		40.0	40.0	40.0	40,0	40.0	40.0	40.0	40.0	40.0	40.
≥ 14000		40.0	40.0	40.0	40,0	40.0	40.0	40.0	40.0	40.0	40,0	40.0	40.0	90.0	40.0	40.
≥ 12000		41.3	41.3	41.3	41.3	41.3	41.3	41,3	41.5	41,3	41.3	41.3	41.3	41.3	41.3	41.
≥ 10000		43.3	43.3	43.3	43,3	43.3	43,3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.
≥ 9000		44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.
≥ 8000		44.0	44.0	44.0	44,0	44.0	44,0	44.0	44.0	4410	44.0	44.0	44.0	44.0	44.0	44.
≥ 7000		44.7	44.7	44.7	44,7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.
≥ 6000		46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	40.7	46.7	46.7	46.7	46.7	46.7	46.
≥ 5000		48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.
≥ 4500		49.3	49.3	49.3	49,3	49.3	49.3	49.3	49.3	49,3	49.3	49.3	49.3	49.3	49.3	49.
≥ 4000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50,0	50.0	50.0	50.0	50.0	50.0	50.
≥ 3500		51.3	51.3	51.3	51,3	51.3	51.3	51.3	51.3	51,3	51.3	51.3	51.3	51.3	51.3	51.
≥ 3000		57.3	57.3	57.3	57,3	57.3	57.3	57.3	57.3	57 3	57.3	57.3	57.3	57.3	57.3	57.
≥ 2500		64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.
≥ 2000		73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.
≥ 1800		74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.
≥ 1500		84.7	85.3	86.0	86.0	86.0	86.0	86.0	86.0	8610	86.0	86.0	86.0	86.0	86.0	86.
≥ 1200		88.0	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89,3	89.3	89.3	89.3	89.3	89.
≥ 1000		89.3	90.7	91.3	91.3	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.
≥ 900		90.7	92.0	92.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.
≥ 800		90.7	92.0	92.7	93.3	93.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.
≥ 700		90.7	92.0	92.7	93.3	94.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.
≥ 600		91.3	92.7	93.3	94.0	95.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.
≥ 500		92.0	93.3	94.7	95.3	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98
≥ 500 ≥ 400		92.0	93.3	94.7	96.0	97.2	90.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.
		92.0	93.3	94.7	96.0	97.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
≥ 300 ≥ 200		92.0	93.3	94.7	96.0	97.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
		92.0	93.3	94.7	96.0		99.3	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100
≥ 100 ≥ 0		92.0	02.2	94.7	96.0		00 2	100.0		100.0				100.0		

150 TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 7

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# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

APR

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5703 CEILING VERSUS VISIBILITY JAN 78

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	BILITY (ST	ATUTE MILI	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/3	≥ 5/16	≥ ¼	≥ 0
NO CEILING		38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
≥ 20000		44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 18000 ≥ 16000		44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	4497	44.7	44.7	44.7	44.7	44.7	44.
≥ 14000 ≥ 12000		44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.
≥ 10000 ≥ 9000		46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.
≥ 8000 ≥ 7000		47.3	47.3	47.3	47.3	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.
≥ 6000		49.3	49.3	49.3	49.3	50.0	50.0	50.0	50.0	50.0	50.0	50.0	30.0	50.0	30.0	50.
≥ 5000 ≥ 4500		50.7	50.7	50.7	50.7	50.7	50.7	51.3	51.3	51.3	51.3	51.3	51,3	51.3	51.3	50.
≥ 4000		51.3	51.3	51.3	51.3	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.
≥ 3500 ≥ 3000		53.3	59.3	59.3	53.3	54.0	54.0	54.0	54.0	90.0	54.0	54.0	60.0	60.0	54.0	60.
≥ 2500 ≥ 2000		68.0 75.3	68.0	68.0	68.0	68.7	68.7	68.7	68.7	76.0	68.7	68.7	68.7	68.7	68.7	68.
≥ 1800 ≥ 1500		78.0	78.0	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.
≥ 1200 ≥ 1000		88.0	90.0	92.0	92.0	92.7	93,3	93.3	93,3	93.3	93.3	93.3	93.3	93.3	93.3	93.
≥ 900 ≥ 800		88.0	90.0	92.7	92.7	93.3	94.0	94.0	94.0	9410	94.0	94.0	94.0	94.0	94.0	94.
≥ 700 ≥ 600		89.3	92.0	94.7	94,7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.
≥ 500		89.3	92.0	94.7	94.7	96.0	97.3	97.3	97.3	97,3	97.3	97.3	97,3	97.3	97.3	97.
≥ 400 ≥ 300		89.3	92.0	95.3	95.3	96.7	98.7	100.0	100.0	100.0	100.0	00.0	00,0	100.0	100.0	100.
≥ 200		89.3	92.0	95.3	95.3	96,7	98.7	A STATE OF THE PARTY OF THE PAR		100+0	and the state of the state of the					
≥ 100 ≥ 0		89.3	92.0	95.3	95.3	96.7		Contract to the second of the	A CONTRACTOR OF THE PARTY OF TH	100,0			Commence of the contract of	and the second second	and the second second	- The same of the

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

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#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

YEARS

APR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

18

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5703 CEILING VERSUS VISIBILITY JAN 78

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1811

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CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		42.0	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43,3	43.3	43.3	43.3	43.3	43.3	43.
≥ 20000		51.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53,3	53,3	53.3	53.3	53.3	53.3	53.
≥ 18000 ≥ 16000		51.3	53.3	53.3	53.3	53.3	53,3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53
≥ 14000 ≥ 12000		52.0	54.0	54.0	54.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54
≥ 10000 ≥ 9000		55.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57
≥ 8000 ≥ 7000		56.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59,3	59.3	59,3	59,3		59.3	59
≥ 6000		59.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62
≥ 5000 ≥ 4500		61.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64
≥ 4000		64.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66
≥ 3500 ≥ 3000		65.3	66.7	68.7	68.7	68.7	66.7	68.7	66.7	68,7	66,7	68.7	68.7	68.7	68.7	68
≥ 2500 ≥ 2000		69.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72
≥ 1800 ≥ 1500		75.3	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79,3	79.3	79.3	79.3	79.3	79.3	79
≥ 1200 ≥ 1000		86.0		91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91
≥ 900 ≥ 800		87.3	91.3	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94
≥ 700		88.7	92.7	95.3	96.7	96.7	96.7	96.7	96.7	97.3	97,3	97.3	97,3	96.7	97.3	97
≥ 600 ≥ 500		90.7	94.7	98.0	98.7	98.7	98.7	99.3	99.3					-	99.3	
≥ 400 ≥ 300		90.7	94.7	98.0	99.3	99.3	99.3	99.3	99.3				-		100.0	
≥ 200		90.7	94.7	98.0	99.3	99.3	99.3	99.3	99.3						100.0	
≥ 100		90.7		98.0		99.3	99.3	99.3	99.3						100.0	

TOTAL NUMBER OF OBSERVATIONS 15

DIRNAVOCEANMET SMOS

TAL NUMBER OF OBSERVATIONS

## **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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5703 CEILING VERSUS VISIBILITY JAN 78

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 18000 ≥ 16000		48.0	49.3	49.3	49,3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 14000 ≥ 12000		48.0	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49,3	49.3	51.3	51.3	49.3	49.3	49.3
≥ 10000 ≥ 9000		52.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 8000 ≥ 7000		52.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	56.0
≥ 6000 ≥ 5000		56.0	57.3	57.3	57.3	57.3	57,3	57.3	57.3	57.3	57.3	57.3	57.3	57.3 58.7	57.3	57.3
≥ 4500 ≥ 4000		57.3 57.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.
≥ 3500 ≥ 3000		57.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58,7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 2500 ≥ 2000		62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62,0	62.0	62.0	62.0	62.0	62.0	63.3
≥ 1800 ≥ 1500		63.3	64.7	67.3	64.7	64.7	67.3	64.7	67.3	64.7	64.7	64.7	67.3	64.7	64.7	67.3
≥ 1200 ≥ 1000		69.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3 82.0	71.3	71.3
≥ 900 ≥ 800		83.3	86.7	87.3	87.3	87.3 91.3	91.3	87.3 91.3	91.3	91,3	91.3	91.3	91.3	87.3 91.3	91.3	91.3
≥ 700 ≥ 600		86.7	90.0	91.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 500 ≥ 400		88.7	92.0	94.7	96.7	96.7	96.7	96.7	96.7	98.0	96.7	96.7	96.7	96.7	96.7	96.
≥ 300 ≥ 200		88.7	92.0	94.7	97.3	98.0	98.0	98.0	98.0	99,3	100.0	99.3	99,3	99.3	99.3	99.3
≥ 100 ≥ 0		88.7	92.0	94.7	97.3	98.0	98.0	98.0	98.0	99.3	100.0		100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 15

DIRNAVOCEANMET SMO

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## **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		33.3	34.0	34.8	35.4	35.4	36.0	36.0	36.0	36.1	36.1	36.1	36.2	36.3	36.3	State of the
≥ 20000		38.7	39,8	40.5	41.2	41.3	41.9	41.9	41.9	42.1	42.1	42.1	42.2	42.3	42.3	42.0
≥ 18000 ≥ 16000		39.0	40.1	40.9	41.5	41.6	42.3	42.3	42.3	42.4	42.4	42.4	42.5	42.6	42.7	42.
≥ 14000		39.1	40.2	41.0	41.6	41.7	42.3	42.3	42.3	42.5	42.5	42.5	42.6	42.7	42.8	43.0
≥ 12000		39.8	40.8	41.7	42.3	42.3	43.0	43.0	43.0	43.2	43.2	43.2	43.3	43.3	43.4	43.
≥ 10000		41.3	42.6	43.4	44.1	44.2	44.9	44.9	44.9	45.3	45.3	45.3	45.3	45.4	45.5	45.1
≥ 9000		41.4	42.7	43.5	44.2	44.3	45.0	45.0	45.0	45,3	45.3	45,3	45.4	45.5	45.6	45.
≥ 8000		42.3	43.6	44.4	45.1	45.3	46.0	46.1	46.1	46.4	46,4	46.4	46.5	46.4	66.7	46.
≥ 7000		43.2	44.5	45.3	46.0	46.2	46.9	47.0	47.0	47.3	47.3	47.3	47.4	47.5	47.6	47.
≥ 6000		44.2	45.5	46.3	47.0	47.2	47.9	48.0	48.0	48,3	48.3	48.3	48.4	48.5	48.6	48.
≥ 5000		45.3	46.8	47.6	48.3	48.4	49.2	49.3	49.3	49.6	49.6	49.6	49,7	49.8	49.8	50.
≥ 4500		45.9	47.3	48.2	48.8	49.0	49.8	49.8	49.8	50.2	50.2	50.2	50.3	50.3	50.4	50.
≥ 4000		47.2	48.6	49.4	50.1	50,3	51.0	51.1	51.1	51.4	51.4	51.4	51,5	51.6	51.7	51.
≥ 3500		48.1	49.6	50.4	51.1	51.3	52.0	52.1	52.1	52,4	52,4	52.4	52.5	52.6	52.7	52.
≥ 3000		50.3	52.1	52.9	53.6	53.8	54.5	54.0	54.0	54,9	54,9	54.9	55.0	25.1	55.2	55.4
≥ 2500		53.6	55.6	56.4	57.2	57.3	58.1	58.2	58.2	50,5	58.5	58.5	58.6	58.7	58.8	59.
≥ 2000		58.0	60.3	61.2	62.1	62.3	63.0	63.1	63.1	03.4	63.4	03.4	63.5	63.6	63.7	63.
≥ 1800		59.0	61.3	65.5	63,1	63.3	64.1	64.2	64.2	04.5	64.5	04.5	64.6	64.7	64.8	65.0
≥ 1500		64.4	66.9	68.2	69.1	69.3	70.5	70.6	70.0	/1.0	71,0	71.0	71.1	71.2	71.3	71.
≥ 1200		68.0	70.8	72.6	73,5	73.7	75.0	75.1	75.1	75.5	75,5	75.5	75,6	75.7	75.8	76.0
≥ 1000		71.9	75.3	77.3	78.5	78.7	80.3	80.3	80.3	80,8	80.8	80.8	80.8	80.9	81.0	81.3
≥ 900		73.7	77.4	79.8	80.9	81.1	82.7	82.8	82.8	83.2	83.2	83.2	83.3	83.3	83.4	83.
≥ 800		76.7	80.5	83.3	85.2	85.3	87.1	87.2	87.2	87.6	87,7	87.7	87.8	87.8	87.9	88.2
≥ 700		77.4	81.6	84.8	86.8	87.0	88.8	88.9	88.9	89.4	89.5	89.5	89.6	89.7	89.8	90.0
≥ 600		78.9	83.3	86.8	88.9	89.3	91.3	91.5	91.5	92.0	92.2	92.2	92.3	92.3	92.4	92.
≥ 500		79.7	84.2	88.2	90.4	90.8	93.2	93.5	93.5	94.2	94.3	94.3	94,4	94.5	94.6	94.
≥ 400		80.2	84.7	89.2	91,8	92.3	94.8	95.5	95.5	96,4	96,7	96.7	96,8	96.8	96.9	97.
≥ 300		80.2	84.7	89.3	92.2	92.8	95.6	96.5	96.5	97,6	97.8	97.8	98.0	98.1	98.2	98.
≥ 200		80.3	84.9	89.5	92.5	93.1	96.1	97.1	97.1	98,3	98.6	98.6	98,8	78.8	98.9	99.
≥ 100 ≥ 0		80.3	84.9	89.5	92.5	93.1	96.1	97.1	97.1	98.4	98.8	98.8	99,1	99.2	99.3	
≥ 0		80.3	84.9	89.5	92.5	93.1	96.1	97.1	97.1	98,4	98.8	98.8	99.3	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS 5703 CEILING VERSUS VISIBILITY JAN

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## **CEILING VERSUS VISIBILITY**

12925

CHASE FIFLD, TEXAS

73-77

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

OO HOURS (L.S.T.)

5703 CEILING VERSUS VISIBILITY

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥′0
NO CEILING ≥ 20000		46.5	47.7	57.4	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.
≥ 18000 ≥ 16000		52.9	54.8	57.4	58.1	58.1	58.1	58.1	58.1	58,1	58,1	58 - 1	58.1	58 · 1	58.1	58.
≥ 14000 ≥ 12000		52.9	54.8	57.4	58.1	58.1	58.1	58.1	58.1	58,1	58.1	58.1	58.1	58.1 58.1	58.1	58.
≥ 10000 ≥ 9000		54.2	56.1	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.
≥ 8000 ≥ 7000		56.1	58.1	60.7	61,3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.
≥ 6000 ≥ 5000		57.4	59.4	61.9	63.2	62.6	63.2	62.6	62.6		62.6	62.6	63.2		62.6	62.
≥ 4500 ≥ 4000		60.0	61.9	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65,2	65.2	65.2	65.2	65.2	65.
≥ 3500 ≥ 3000		61.3	62.6	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.
≥ 2500 ≥ 2000		63.2	68.4	67.7	71.6	71.6	68.4	71.6	68.4	71.6	68.4	71.6	71.6	68.4	68.4	68.
≥ 1800 ≥ 1500		71.0	72.9	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.
≥ 1200 ≥ 1000		72.9	76.1	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79,4	79.4	79.4	79.4	79.4	79.
≥ 900 ≥ 800		80.0	83.9	86.9	90.3	87.1	87.1 90.3	87.1	90.3	90.3	87.7	87.7	91.0	87.7	87.7	91.0
≥ 700 ≥ 600		84.5	89.0	91.6	92.3	92.3	92.3	92.3	92.3	92.9	92.9	92.9	92.9	0- 4	92.9	92.
≥ 500 ≥ 400		85.8	90.3	92.9	94.2	94.2	95.5	95.5	95.5	95,5	96.1	96.1	96.1	96.1	96.1	96.
≥ 300 ≥ 200		85.8	90.3	92.9	94.2	94.2	96.8	96.1	96.1	96,1	97.4	97.4	97.4	_	97.4	97.
≥ 100 ≥ 0		85.8	90.3	92.9	94.2	94.2	96.8	97.4	97.4	97.4	99.4	99.4			100.0	100.

TOTAL NUMBER OF OBSERVATIONS

155

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

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5703 CEILING VERSUS VISIBILITY JAN 7

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ %	≥ %	≥ ⅓	≥ 5/16	≥ ¼	≥ 0
NO CEILING		29.7	32.3	32.9	35.5	35,5	38.7	38.7	38.7	38,7	38.7	38.7	38.7	38.7	39.4	40.0
≥ 20000		35.5	39.4	40.7	43.9	43.9	47.1	47.1	47.1	47.7	47.7	47.7	47,7	47.7	48.4	49.0
≥ 18000 ≥ 16000		35.5	39.4	40.7	43.9	43.9	47.1	47.1	47.1	47.7	47.7	47.7	47.7	47.7	48.4	49.0
≥ 14000 ≥ 12000		36.1	40.0	41.3	44.5	44.5	47.7	47.7	47.7	50.3	48,4	50.3	50.3	48.4	49.0	51.0
≥ 10000 ≥ 9000		39.4	43.2	44.5	47.7	47.7	51.0	51.0	51.0	51.6	51.6	51.6	51.6	51.6	52.3	52.9
≥ 8000 ≥ 7000		40.7	44.5	45.8	49.0	49.0	52,3	52.3	52.3	52,9	52,9	52.9	52.9	52.9	53.6	54.
≥ 6000 ≥ 5000		41.3	45.2	46.5	49.7	49.7	52.9	52.9	52.9	53.6	53.6	53.6	53.6	53.6	54.2	54.8
≥ 4500 ≥ 4000		43.2	47.1	48.4	51,6	51.6	54,8	54.8	54,8	55.5	55,5	35.5	55.5	55.5	56.1	57.
≥ 3500 ≥ 3000		44.5	48.4	49.7	52,9	52.9	56.1	56.1	56.1	56.8	56.8	56.8	56.8	56.8	57.4	58.
≥ 2500 ≥ 2000		47.1	51.0	52.3	55.5	55.5	58,7	58.7	58.7	59,4	59.4	59.4	59.4	59.4	60.0	61.
≥ 1800 ≥ 1500		51.0	54.8	56.8	60.0	60.0	63,2	63.2	63.2	63,9	63,9	63.9	63.9	63.9	64.5	65.
≥ 1200 ≥ 1000		57.4	61.9	64.5	67.7	67.7	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	73.
≥ 900 ≥ 800		63.9	68.4	71.0	74.2	74.2	77.4	78.1	78.1	78.7	78.7	78.7	78.7	78.7	79.4	80.
≥ 700 ≥ 600		68.4	74.2	76.8	81.9	81.9	85.2	85.8	85.8	87.1	87,1	87.1	87.7	87.7	88.4	89.
≥ 500 ≥ 400		68.4	76.1	79.4	84.9	84.5	89.0	89.7	89.7	91.0	91.0	91.0	91.6	92.3	92.9	94.
≥ 300 ≥ 200		70.3	78.1	81.9	86.5	86.5	91.0	92.3	92.3	94.2	94,8	94.8	95.5	96.1	96.8	98.
≥ 100 ≥ 0		70.3	78.1	81.9	87.1		91.6	92.9	92.9	94.8	96.1	96.1	97.4	98.1	98.7	100 • 0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

## **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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5703 CEILING VERSUS VISIBILITY

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							YIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		18.1	19.4	21.9	27.1	27.1	29.0	29.0	29.0	29.0 38.7	29,0	39.4	40.7	40.7	30.3	31.6
≥ 18000 ≥ 16000		20.7	23.9	27.1	33.6	33.6	38.1	38.1	38.1	38.7	38.7	39.4	40.7	40.7	40.7	41.9
≥ 14000 ≥ 12000		21.3	24.5	27.7	34.2	34.2	38.7	38.7	38.7	40,0	40.0	40.7	41.9	41.9	41.9	43.2
≥ 10000 ≥ 9000		24.5	27.7	32.3	39.4	39.4	44.5	44.5	44.5	45.8	46.5	47.1	48.4	48.4	48.4	49.7
≥ 8000 ≥ 7000		25.2	28.4	32.9	40.0	40.0	45.2	45.2	45.2	47.1	47.7	48.4	49.7	49.7	49.7	51.0
≥ 6000 ≥ 5000		25.2	28.4	32.9	40.0	40.0	45.2	45.2	45.2	47.7	47.7	48,4	50.3	50.3	49.7 50.3	51.0
≥ 4500 ≥ 4000		25.2	28.4	33.6	41.3	41.3	46.5	46.5	46.5	48,4	49.0	49.7	51.0	51.0	51.0	52.3
≥ 3500 ≥ 3000		25.8	29.0	34.8	42.6	42.6	47.7	47.7	47.7	50,3	50.3	51.6	52.3	52.3	52.3	53.6
≥ 2500 ≥ 2000		25.8	29.0	35.5	43.2	43.2	49.7	53.6	49.7	51.6	52,3	52.9	54.2	54.2	54.2	55.5
≥ 1800 ≥ 1500		27.7	31.0	38.1	47,1	47.1 52.3	54.2	54.8	54.8	58,1	58,7	59.4	66.5	66.5	60.7	67.7
≥ 1200 ≥ 1000		32.3	36.8	45.8	56,1	56.1	67.7	64.5	69.0	72.9	73.6	74.2	71.0	71.0	71.0	72.3
≥ 900 ≥ 800		34.2	39.4	51.6	60.0	60.7	71.6	70.3	70.3	74,2	74.8	75.5	76.8	76.8	76.8	78.7
≥ 700 ≥ 600		37.4	44.5	54.8	69.0	67.1	76.1	77.4	77.4	81,9	85.8	83.2	84.5	84.5	84.5	86.5
≥ 500 ≥ 400		37.4	45.8	58.1	70.3	70.3	80.7	81.9	83.2	87,1	87.7	90.3	91,6	91.6	91.6	93.6
≥ 300 ≥ 200		37.4	46.5	59.4	71.0	71.6	81.3	83.9	83.9	90.3	90.3	92.3	93,6	93.6	94.2	95.5
≥ 100 ≥ 0		37.4	46.5	59.4	71.0	71.6	81.3	84.5	84.5	91.0	91.6	92.9	94.2	94.2	95.5	99.4

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

.

#### **CEILING VERSUS VISIBILITY**

CEILING (FEET)

NO CEILING ≥ 20000 ≥ 16000 ≥ 14000 ≥ 12000

≥ 4500 ≥ 4000 ≥ 3500 ≥ 3000

500 400

100

≥ 10

CHASE FIELD, TEXAS

≥ 6

≥ 5

35.5 30.1 3/.4 30.7 44.5 40.0 40.7 41.9 43.9 44.5 44.5 46.5 48.4 50.3 51.0 47.7 49.7 51.0 53.6 54.2 61.9 65.8 67.7 69.7 70.3

83.2 89.0

83.2

83.2

74.8 76.8 80.7 82.6

83.2 85.2 85.8

90.3

92.9

93.6

93.6

93.6

92,9

69.0 72.9

72.9 78.1

78.1

78.

78.1

73-77

VISIBILITY (STATUTE MILES)

≥ 11/4 | ≥ 11/4

93.6 94.6 96.8 95.9 96.8 96.8 96.1 99.4 99.4

≥ 1

≥ %

94,8 96,8 96.8 96,8 96,8 96,8 99,4 99,4 99,4

99,4

99.4

SDAS

09

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

≥ 21/2

≥ % ≥ 1/2 ≥ 5/16 

TOTAL NUMBER OF OBSERVATIONS

99.4 99.4 99.4100.0100.0100.0 99.4 99.4 99.4100.0100.0100.0 99.4 99.4 99.4100.0100.0100.0

96.4 97.4 97.9 99.4100.0100.0100.0 99.4100.0100.0100.0

DIRNAVOCEANMET

....

0

#### **CEILING VERSUS VISIBILITY**

12925

2

CHASE FIELD, TEXAS

73-77

MAY

12

0

5703 CEILING VERSUS VISIBILITY

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	33.6	28.4	28.4	28.4	28.4	28.4	33.
≥ 18000 ≥ 16000		33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.
≥ 14000 ≥ 12000		34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.
≥ 10000 ≥ 9000		37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.
≥ 8000 ≥ 7000		38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.
≥ 6000 ≥ 5000		40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.
≥ 4500 ≥ 4000		40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40,7	40.7	40.7	40.7	40.7	40.7	40.
≥ 3500 ≥ 3000		43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	52.3	43,2	43.2	43,2	43.2	43.2	43.
≥ 2500 ≥ 2000		62.6	78.7	63.2	63.2	63.2	63.9	63.9	80.0	80.0	63.9	80.0	63.9	80.0	63.9	63.
≥ 1800 ≥ 1500		81.3	82.6	82.6	91.0	82.6	83.9	83.9	93.6	93.6	93.6	93.6	93.6		93.6	83.
≥ 1200 ≥ 1000		91.6		93.6	94.2	94.8	96:1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.
≥ 900 ≥ 800		92.9	94.8	94.8	95.5	96.1	97.4	98.1	98.1	98,1	98,1	98.1	98.1	98.1	98.1	98.
≥ 700 ≥ 600		93.6	95.5	95.5	96.8	97.4	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.
≥ 500 ≥ 400		93.6	95.5	95.5	96.8	98.1		100.0						100.0		
≥ 300 ≥ 200		93.6	95.5	95.5	96.8	98.1								100.0		
≥ 100 ≥ 0		93.6		95.5	96.8	98.1								100.0		

TOTAL NUMBER OF OBSERVATIONS

155

# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

YEARS

MAY

888

0

0

5703 CEILING VERSUS VISIBILITY

D

D

D

0

0

15

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28,4	28,4	28.4	28.4	28.4	28.4	28.
≥ 20000		37.4	37.4	37.4	37.4	37.4	37,4	37.4	37.4	37.4	37,4	37.4	37,4	37.4	37.4	37.
≥ 18000 ≥ 16000		37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37,4	37.4	37.4	37.4	37.4	37.
≥ 14000		37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.
≥ 12000		38.7	38.7	38.7	38.7	38.7	38.7	28.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.
≥ 10000		41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.
≥ 9000		41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.
≥ 8000		43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.
≥ 7000		44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.
≥ 6000		44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.
≥ 5000		45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.
≥ 4500		45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.
≥ 4000		47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47,7	47.7	47.7	47.7	47.7	47.7	47.
≥ 3500		51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.
≥ 3000		59.4	59.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.
≥ 2500		76.8	76.8	77.4	78.1	78.1	78.1	78.7	78.7	78,7	78.7	78.7	78.7	78.7	78.7	78.
≥ 2000		88.4	88.4	89.0	89.7	89.7	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.
≥ 1800		88.4	88.4	89.0	89.7	89.7	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.
≥ 1500		92.3	92.3	93.6	94.2	94.2	94.2	95.5	95.5	95,5	95,5	95.5	95,5	95.5	95.5	95.
≥ 1200		92.9	92.9	94.8	95.5	96.1	96.1	97.4	97.4	97.4	97,4	97.4	97.4	97.4	97.4	97.
≥ 1000		93.6	93.6	95.5	96.1	96.8	96.8	98.7	98.7	98,7	98.7	98.7	98.7	98.7	98.7	98.
≥ 900		93.6	93.6	95.5	96.1	96.8	96.8	98.7	98.7	98,7	98.7	98.7	98.7	98.7	98.7	98.
≥ 800		93.6	93.6	95.5	96.1	96.8	96.8	98.7	98.7	98,7	98.7	98.7	98.7	98.7	98.7	98.
≥ 700		93.6	93.6	95.5	96.1	96.8	97.4	99.4	99.4	99,4	99.4	99.4	99.4	99.4	99.4	99.
≥ 600		93.6	93.6	95.5	96.1	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.
≥ 500		93.6	93.6	96.1	96,8	97,4	98.1	100.0	100.0	100,0	100,0	100,0	100,0	100.0	100.0	100.
≥ 400		93.6	93.6	96.1	96.8	97.4	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
≥ 300		93.6	93.0	96.1	96,	97.4	98.1	100.0	100.0	100,0		100.0	100.0		100.0	100.
≥ 200		93.6	93.6	96.1	96.8	97.4	98.1	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.
≥ 100		93.6	93.6	96.1	96.8	97.4	98.1	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.
≥ 100 ≥ 0		93.6	93.6	96.1	96.8	97.4	98.1	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.

TOTAL NUMBER OF OBSERVATIONS 155

# **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

5703 CEILING VERSUS VISIBILITY JAN 78

																-
CEILING							VIS	IBILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		42.6	42.6		42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42,6		42.6	42.
≥ 20000		58.1	58.1	58.1	58.1	58.1	58.7	58.7	58.7	58 . 7	58,7	58,7	50.7	58.7	58.7	58.
≥ 18000 ≥ 16000		58.7	58.7	58.7	58.7	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59
≥ 14000		60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61
≥ 12000		61.9	61.9	61.9	61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62
≥ 10000		65.2	65.2	65.8	65.8	65.8	66.5	66.5	66.5	6615	66.5	66.5	66.5	66.5	66.5	66.
≥ 9000		65.8	65.8	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67,1	67.1	67.1	67.
≥ 8000		67.1	67.1	67.7	67.7	67.7	68.4	68.4	68.4	68,4	68,4	68,4	68.4	68.4	68.4	68
≥ 7000		69.0	69.0	69.7	69.7	69.7	70.3	70.3	70.3	70,3	70,3	70.3	70.3	70.3	70.3	70
≥ 6000		69.0	69.0	69.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70
≥ 5000		70.3	70.3	71.0	71.0	71.0	71.6	71.6	71.0	11:6	71.0	71.0	71.6	71.6		71
≥ 4500		71.6	71.6	72.3	72,3	72.3	72.9	72.9	72.9	72.9	72.9	72.9	12.4	72.9	72.9	72
≥ 4000		72.3	72.3	72.9	72.9	72.9	73.6	73.0	73.6	75.6	73.6	73.6	73.6	78.6	75.6	73
≥ 3500 ≥ 3000		74.2	74.2	74.8	74.8	74.8	75,5	75.5	75.5	76.8	76.8	76.8	76.8	76.8	76.8	76
-		78.7	80.0	80.7	80.7	80.7	81.3	21.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81
≥ 2500 ≥ 2000		81.3	82.0		83.2	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83
		83.2	84.5	85.2	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85
≥ 1800 ≥ 1500		89.7	91.0	91.6	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93
≥ 1200		91.6	92.9		94.2	94.2	95.5	95.5	95.5	95,5	95.5	95.5	95.5	95.5	95.5	95
≥ 1000		93.6	94.8	100 100 100	97.4	97.4	98.7	99.4	99.4	99,4	99.4	99.4	99.4	99.4	99.4	99
≥ 900		93.6	94.8	96.1	97.4	97.4	98.7	99.4	99.4	99,4	99,4	99.4	99,4	99.4	99.4	99
≥ 900 ≥ 800		93.6	94.8	96.1	97.4	98.1	99.4								100.0	
≥ 700		93.6	94.8	96.1	97.4	98.1									100.0	
≥ 600		93.6	94.8	96.1	97.4	98.1									100.0	
≥ 500		93.6	94.8	96.1	97,4	98.1									100.0	
≥ 400		93.6	94.8	96.1	97.4	98.1									100.0	
≥ 300 ≥ 200		93.6	94.8	96.1	97.4	98.1	200	AND DESCRIPTION OF REAL PROPERTY.		-				Marian and an artist	100.0	100 100 100
		93.6	94.8	96.1	97,9	98.1									100.0	
≥ 100 ≥ 0		93.6	94.8	96.1	97.9	98.1									100.0	
2 "		93.6	74,0	90.1	97.4	70.1	77.4	10000	700.0	70010			-00.0	40000	20010	100

TOTAL NUMBER OF OBSERVATIONS

155

0

DIRNAVOCEANMET

# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

MAY

21

)

0

0

0

5703 CEILING VERSUS VISIBILITY

JAN 78

0

0

0

CORE 60

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

(FEET)							VISI	BILITY (ST.	ATUTE MIL	ES)						
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 20000		65.8	65,8	66.5	66.5	66,5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.
≥ 18000 ≥ 16000		65.8	65.8	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.
≥ 14000 ≥ 12000		65.8	65.8	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67,1	67.1	67.1	67.1	67.1	67.
≥ 10000		67.1	67.1	67.7	67.7	67.7	68,4	68.4	68.4	68,4	68.4	68.4	68.4	68.4	68.4	68.
≥ 9000		67.1	67.1	67.7	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68,4	68.4	68.4	68.
≥ 8000		68.4	68.4	69.0	69.0	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.
≥ 7000		70.3	70.3	71.0	71.0	71.0	71.6	71.0	71.0	1110	71.0	71,0	11.0	11.0	71.6	71.
≥ 6000 ≥ 5000		70.3	70.3	71.0	71.0	71.0	71.6	71.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	71.
≥ 4500		72.9	72.9	73.6	73,6	73,6	74,2	74.2	74.2	74.2	74,2	74.2	74,2	74.2	74.2	74.
≥ 4000		74.2	74.2	74.8	74.0	74.6	75.5	75.5	75.2	1213	75.5	1202	13.3	15.5	12.5	13.
≥ 3500 ≥ 3000		74.8	75.5	76.1	77.4	77.4	76,8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	76.
≥ 2500		76.1	76.8	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.
≥ 2000		78.1	78.7	79.4	79.4	79.4	80.0	80.0	80.0	80,0	80.0	80.0	80.0	80.0	80.0	80.
≥ 1800 ≥ 1500		78.1	78.7	79.4	79.4	79.4	80.0	80.0	80.0	80,0	80,0	80.0	80.0	80.0	80.0	80.
≥ 1500		81.3	81.9	82.6	82.0	82.6	83.2	89,2	83.2	03.5	83.2	03.2	09.2	05.2	83.2	83.
≥ 1200 ≥ 1000		91.0	93.6	94.2	89.0	89.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	84.
		91.0	93.6	94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	04.
≥ 900 ≥ 800		92.9	95.5	96.1	96.1	96.1	96,8	96.8	96.0	96,8	96.8	96.8	96.8	96.8	96.8	96.
≥ 700		93.6	97.4	98.1	98,7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99,4	99.4	99.4	99.
≥ 600		93.6	97.4	98.1	98.7	98.7	99.4	99.4	99.4	99,4	99.4	99.4	99,4	99.4	99.4	99.
≥ 500 ≥ 400		93.6	97.4	98.1	98,7	98.7	99.4	99.4	99.4	99.4	99,4	99.4	99,4	99.4	99.4	99.
	-	93.6	97.4		98.7	98.7	90.4	00 4	90 4	00.4	100.0	100.0	100.0	100.0	100.0	
≥ 300 ≥ 200		93.6	97.4	98.1	98.7	98.7	99.4	99.4	99.4	99.4		100.0	100.0	100.0		100.
≥ 100 ≥ 0		93.6	97.4	98.1	98.7	98.7	99.4	99.4	99.4	99,4		100.0		100.0		100.

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

# **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		34.0	34.6	35.3	36.4	36.4	37.0	37.0	37.0	37.0	37.0	37.1	37.2		37.3	37.
≥ 18000		41.8	42.9	44.0	45.2	45.2	46.4	40.3	46.4	46.5	46.5	46.6	46.8	46.8	46.9	47.
≥ 16000		41.8	42.9	44.0	45.2	45.2	46.4	46.4	46.4	46,5	46,5	46.6	46.8	46.8	46.9	47.
≥ 14000 ≥ 12000		42.3	44.4	45.6	46.9	46.9	48.0	48.0	48.0	48.2	48.2	48.3	48.5	48.5	48.6	48.
≥ 10000		45.1	46,2	47.5	49.0	49.0	50.2	50.2	50.2	50.4	50.5	50.6	50.7	50.7	50.8	51.
≥ 9000		45.2	47.6	48.9	50.3	50.3	51.5	51.5	51.5	51.9	51.9	52.0	52.2	52.2	52.3	52.
≥ 7000		47.7	48.8	50.1	51.6	51.6	52.8	52.8	52.8	53.2	53.2	53.3	53,5	53.5	53.6	53.
≥ 6000 ≥ 5000		47.7	48.9	51.0	51.7	52.6	52.9	52.9	53.8	54.1	54.2	54.3	54.4	54.4	54.5	54.
≥ 4500		49.1	50.3	51.7	53,3	53.3	54,5	54.5	54.5	54.8	54,9	55.0	55,2	55.2	55.2	55.
≥ 4000		51.2	52.5	54.0	53.6	55.6	56.8	55.0	56.8	57.1	57.2	57.3	57.4	57.4	57.5	57.
≥ 3500 ≥ 3000		53.9	55.2	56.7	58.4	58.4	59.7	59.7	59.7	60,0	60.1	60.2	60.3	60.3	60.4	60.
≥ 2500 ≥ 2000		58.8	65.8	67.7	69.6	63.9	71.3	65.5	65.5	72.1	72.2	72.3	72.4	72.4	72.5	72.
≥ 1800		65.6	67.3	69.3	71.2	71.3	72.9	73.2	73.2	73.7	73.8	73,9	74.0	74.1	74.2	74.
≥ 1500		71.3	76.9	79.4	81.6	78.2	79,9	80.4	80.4	81.0	81.1	81.1	81.3	81.4	81.5	85.
≥ 1200 ≥ 1000		77.3	80.3	83.0	85.4	85.7	87.7	88.5	88.5	8910	89,2	89.3	89.4	89.5	89.6	89.
≥ 900 ≥ 800		78.0	81.1	83.8	86.2	86.5	88.5	89.3	89.3	97.4	90.0	90.1	90.2	90.3	90.4	90.
≥ 700		80.2	84.0	86.9	89.9	90.3	92,5	93.3	93.3	94.0	94.2	94.3	94,5	94.6	94.7	95.
≥ 600		80.2	84.1	87.4	90.5	90.9	93.4	94.3	94.3	9510	95.2	95,2	95,5	95.7	95.7	96.
≥ 500 ≥ 400		80.5	84.8	88.4	91.5	92.0	94.8	96.1	96.1	96,9	97.0	97.2	97,4	97.6	97.7	98.
≥ 300		80.7	84.9	88,6	91,8	92.3	95.1	96.4	96.4	97.3	97.7	97.9	96.2	98.3	98.5	98.
≥ 200		80.7	84.9	88.7	91.9	92.3	95.2	96.7	96.7	97.7	98.3	98.5	98.8	99.0	99.3	99.
≥ 100 ≥ 0		80.7	84.9	88.7	91.9	92.3	95.2	96.7	96.7	97.7	98.3	98.5	98.8	99.0	99.3	100.

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

5703 CEILING VERSUS VISIBILITY JAN 78

# **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

73-77

YEARS

JUN

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5703 CEILING VERSUS VISIBILITY

JAN 7

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

OO HOURS (L S.T.)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ %	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		62.0	62.7	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 20000		70.7	71.3	72.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 18000 ≥ 16000		70.7	71.3	72.0	72.7	72.7	72.7	72.7	72.7	72,7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 14000 ≥ 12000		71.3	72.0	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73,3	73.3	73.3	73.3	73.3	73.3
≥ 10000 ≥ 9000		72.7	73.3	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 8000 ≥ 7000		76.0 76.0	76.7	77.3	78.0	78.0	78.0 78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 6000 ≥ 5000		76.0 77.3	76.7	77.3	78.0	78.0	78,0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 4500 ≥ 4000		77.3	78.0	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.
≥ 3500 ≥ 3000		77.3	78.0	78.7	79.3	79.3	79,3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 2500 ≥ 2000		78.7	79.3	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	84.0	80.7	80.
≥ 1800 ≥ 1500		82.7	83.3	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.
≥ 1200 ≥ 1000		88.0	88.7	89.3	90.0		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 900 ≥ 800		94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 700 ≥ 600		96.7	97.3	98.0	98,7	98.7	98.7	98.7	98.7	98.7	98,7	98.7	98.7	98.7	98.7	98.7
≥ 500 ≥ 400		96.7	97.3	98.0	98,7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.
≥ 300 ≥ 200		98.0	98.7	99.3	100.0	100.0			100.0		100,0		100.0	100.0	100.0	100.0
≥ 100 ≥ 0		98.0	98.7		100.0	100.0	100.0	100.0	100.0	100,0					100.0	

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET

SMOS

# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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5703 CEILING VERSUS VISIBILITY JAN 78

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

O3

CEILING							VISI	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		52.0	56.0	58.0	59,3	59.3	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	61.3	61.
≥ 20000		57.3	62.0	64.0	65.3	65.3	56.0	66.7	66.7	66,7	66.7	66.7	66,7	66.7	67.3	67.
≥ 18000		57.3	62.0	64.0	65.3	65.3	66.0	66.7	66.7	66,7	66.7	66.7	66.7	66.7	67.3	67.
≥ 16000		57.3	62.0	64.0	65.3	65.3	66.0	66.7	66.7	66 9 7	66.7	66.7	66,7	66.7	67.3	67.
≥ 14000		58.0	62.7	64.7	66,0	66.0	66.7	67.3	67.3	67.3	67,3	67.3	67,3	67.3	68.0	68.
≥ 12000		58.7	63.3	65.3	66.7	66.7	67.3	68.0	68.0	00.0	68.0	68.0	68.0	68.0	68.7	68.
≥ 10000		58.7	63.3	65.3	66.7	66.7	67.3	68.0	68.0	98.0	68.0	68.0	68.0	68.0	68.7	68.
≥ 9000		58.7	63.3	65.3	66.7	66.7	67.3	68.0	68.0	00.0	68.0	68.0	68.0	68.0	68.7	68.
≥ 8000		60.7	65.3	67.3	68.7	68.7	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.7	70.
≥ 7000		60.7	65.3	67.3	68.7	68.7	69.3	70.0	70.0	70.0	70.0	70,0	70.0	70.0	70.7	70.
≥ 6000		60.7	65.3	67.3	68.7	68.7	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.7	70.
≥ 5000		50.7	65.3	67.3	68.7	68.7	69.3	70.0	70.0	70,0	70,0	70.0	70.0		70.7	70.
≥ 4500		60.7	65.3	67.3	68.7	68.7	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.7	70.
≥ 4000		60.7	65.3	67.3	68.7	68,7	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.7	70.
≥ 3500		60.7	65.3	67.3	68.7	68.7	69.3	70.0	70.0	70.0	70.0	70.0	70.0		70.7	70.
≥ 3000		61.3	66.0	68.0	69.3	69.3	70.0	70.7	70.7	70,7	70, 7	70.7	70,7	70.7	72.3	710
≥ 2500 ≥ 2000		63.3	68.0	70.0	71.3	71.9	72.0	72.7	72.7	74.7	72.7	74.7	74.7	74 7	75.3	73.
		65.3	70.0	72.0	73.3	73.3	74.0	74.7	74,1	77.7	77 3	77.0	77 3	77 3	78 0	70
≥ 1800 ≥ 1500		68.0	72.7	74.7	76,0		76.7	11.03	11.3	61.3	81.3	21.3		81.3	70.0	78.
		72.0	82.0	84.0	85.3		80.7	86.7	94 7	86.7	86.7	86.7	86.7	84 9	87.3	82.
≥ 1200 ≥ 1000		82.0	87.3	89.3	90.7	90.7	91.3	92.0	92.0	02.	92.0	92.0	92'0	92.0	92.7	92.
		82.7	88.0		91.3	91.3	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.3	93.
≥ 900 ≥ 800		85.3	90.7	92.7	94.0		94.7	95.3	94. 2	95.2	95.3	95.3	95.3	95.3	96.0	96.
		85.3	92.0	94.0	95.3	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	97.3	97.
≥ 700 ≥ 600		85.3	92.7	94.7	96.0		97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.
		85.3	92.7	94.7	96.0		97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.
≥ 500 ≥ 400		85.3	92.7	94.7	96.0		97.3	98.0	98.0	98.0	98.7	98.7	98.7	98.7	99.3	99.
		85.3	92.7	94.7	96.0	-	97.3	98.0	98.0	98.0	98.7	98.7	98.7	98.7	99.3	99.
≥ 300 ≥ 200		85.3	92.7	94.7	96.0		97.3	98.0	98.0	98.0	98.7	98.7	98.7	98.7	99.3	99.
		85.3	92.7	94.7	96.0		98.0	98.7	98.7	98.7	99.3	99.3	99.3	-	100.0	
≥ 100		85.3	92.7	94.7	2	440 (200 00 00)	98.0	98.7	98.7	98.7	99.3	99.3	99.3		100.0	

TOTAL NUMBER OF OBSERVATIONS 150

#### **CEILING VERSUS VISIBILITY**

CEILING (FEET)

CHASE FIELD, TEXAS

73-77

VISIBILITY (STATUTE MILES)

≥3 ≥21/2 ≥2 ≥11/2 ≥1/4 ≥1 ≥ 1/4

0

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

> 5703 CEILING VERSUS VISIBILITY JAN 7

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O CEILING	23.3	27.3	33.3	39.3	39.3	44.7	48.0	48.0	50.0	50.7	50.7	50.7	50.7	51.3	52.0
≥ 20000	26.7	30.7	37.3	44.0	44.0	49.3	52.7	52.7	54.7	55,3	55.3	55,3	56.0	56.7	57.3
≥ 18000	26.7	30.7	37.3	44.0	44.0	49.3	52.7	52.7	54.7	55.3	55.3	55.3	56.0	56.7	57.3
≥ 16000	26.7	30.7	37.3	44.0	44.0	49.3	52.7	52.7	54.7	55.3	55.3	55.3	56.0	56.7	57.3
≥ 14000	27.3	31.3	38.0	44.7	44.7	50.0	53.3	53.3	55.3	56.0	56.0	56.0	56.7	57.3	58.0
≥ 12000	29.3	33.3	40.7	47.3	48.0	53.3	56.7	56.7	58.7	59.3	59.3	59.3	60.0	60.7	61.3
≥ 10000	32.0	36.0	44.0	50.7	51.3	56.7	60.0	60.0	62.7	63.3	63.3	63.3	64.0	64.7	65.3
≥ 9000	33.3	37.3	45.3	52.7	53.3	58.7	62.0	62.0	64.7	65.3	65.3	65.3	66.0	66.7	67.3
≥ 8000	34.7	38.7	46.7	54.0	54.7	60.0	63.3	63.3	66.0	66.7	66.7	66.7	67.3	68.0	68.7
≥ 7000	34.7	38.7	46.7	54.0	54.7	60.0	63.3	63.3	66.0	66.7	66.7	66.7	67.3	68.0	68.7
≥ 6000	34.7	38.7	46.7	54.0	54.7	60.0	63.3	63.3	66.0	66.7	66.7	66.7	67.3	68.0	68.7
≥ 5000	35.3	39.3	47.2	54.7	55.3	60.7	64.0	64.0	66.7	67.3	67.3	67.3	68.0	68.7	69.3
	 35.3	39.3	47.2	34.7	55.3	60.7	64.0	64.0	66.7	67.3	67.3	67.3	68.0	68.7	69.3
≥ 4500 ≥ 4000	36.7	40.7	48.7	36.0	56.7	62.0	65.3	65.3	68.0	68.7	68.7	68.7	69.3	70.0	70.7
	37.3	41.3	49.3	56.7	57.3	62.7	66.0	66.0	68.7	69.3	69.3	49.3	70.0	70.7	71.3
≥ 3500 ≥ 3000	38.7	42.7	50.7	58.0	58.7	64.0	67.3	67.3	70.0	70.7	70.7	70.7	71.3	72.0	72.7
	39.3	43.3	51.3	58.7	59.3	64.7	68.0	68.0	70.7	71.3	71.3	71.3	72.0	72.7	73.3
≥ 2500 ≥ 2000		46.7	55.2	62.7	63.3	68.7	72.0	72.0	74.7	75.2	75.3	75.3	76.0	76.7	77.3
	 42.7	48.7	57.3		40.	7. 2	74 7	74 7	77.2	78.0	78.0	78.0	78.7	79.3	80.0
≥ 1800 ≥ 1500	44.7		21.0	04.1	69.3	71.3	78 7	78.7	81.3	82.0	82.0	82.0	82.7	83.3	84.0
	 48.7	52.7	61.3	00.7		75.3	82.0	82.0	84.5	85.3	85.3	85.3	84.0	86.7	87.3
≥ 1200 ≥ 1000	50.7	2401	63.3	4.7	72.0	78.7			88.7	89.3	80.3	99 3	90.0	90.7	91.3
≥ 1000	 52.7	56.7	66.0	74.1	76.0	82.7	60.0	86.0	40.5	90.0	90.0	90.0	90.0	91.7	-
≥ 900 > 800	52.7	56,7	66.7	75,3	70.7	03.3	80.7	00.1	02.3	90.0	94.0	90.0	90.7	71.0	24 0
≥ 800	 53.3	58.0	70.0	79.3	80.7	87.3	90.7	40.1	7313	94,0	94.0	74.0	04.7	77.3	90.0
≥ 700 ≥ 600	53.3	58.0	70.0	79.3	80.7	87.3	90.7	90,7	93,3	94.0	74.0	94.0	94.7	75.3	90.0
≥ 600	53.3	58.0	70.0	80.0	61.3	88,0	91.3	71.3	7710	94,7	74.1	99.7	75.3	96.0	90.7
≥ 500	54.0	58,7	70.7	80,7	82.0	88.7	92.0	45.0	44.1	95.5	75.3	75.3	40.0	90.7	97.3
≥ 400	54.0	58.7	71.3	81,3	82.7	89.3	92.7	92.7	42.3	96,0	96.0	90.0	96.7	97.3	98.0
≥ 300	54.0	58.7	71.3	81.3	82.7	89,3	92.7	92.7	42.3	96.0	96.0	96.0	96.7	97.3	98.0
≥ 300 ≥ 200	54.0	58.7	71.3	81.3	82.7	89.3	92.7	92.7	96.0	96.7	96.7	96.7	97.3	98.0	99.3
≥ 100	54.0	58.7	71.3	81,3	82.7	89.3	92.7	92.7	96.0	96.7	96.7	97.3	98.0	98.7	100.0
≥ 100 ≥ 0	54.0	58.7	71.3	81.3	82.7	89.3	92.7	92.7	96,0	96.7	96,7	97.3	98.0	98.7	100.0
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TOTAL NUMBER OF OBSERVATIONS

# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

YEARS

HONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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CEILING							VIS	BILITY (STA	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		22.7	23.3	23.3	23.3	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
≥ 20000		27.3	28.0	28.7	28.7	29.3	29.3	29.3	29.3	29.3	29,3	29.3	29.3	29.3	29.3	29.3
≥ 18000 ≥ 16000		27.3	28.0	28.7	28.7	29.3	29.3	29.3	29.3	29.3	29,3	29.3	29.3	29.3	29.3	29.3
≥ 14000 ≥ 12000		28.0	28.7	29.3	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
		31.3	32.0	33.3	33.3	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 10000 ≥ 9000		31.3	32.0	33.3	33.3	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 8000		31.3	32.0	33.3	33,3	34.0	34.0	34.0	34.0	34,0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 7000		31.3	32.0	33.3	33,3	34.0	34.0	34.0	34.0	34,0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 6000 ≥ 5000		31.3	32.0	33.3	33.3	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 4500		31.3	32.0	33.3	33,3	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 4000		31.3	32.0	33.3	33.3	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 3500 ≥ 3000		31.3	32.0	33.3	33.3	34.0	35.3	34.0	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥ 2500		36.0	36.7	38.0	38.0	38.7	38.7	38.7	38.7	38.7	38,7	38.7	38.7	38.7	38.7	38.7
≥ 2000		47.3	48.0	49.3	49.3	50.0	50.0	50.0	50.0	50,0	50,0	50.0	50.0	50.0	50.0	50.0
≥ 1800 ≥ 1500		76.7	78.0	53.3	53.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1200		83.3	84.7	87.3	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1000		86.7	88.0	90.7	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 900 ≥ 800		88.0	92.0	92.0	92.7	93.3	93.3	93.3	93.3	93,3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 700		90.7	92.0	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 600		90.7	92.0	95.3	96.0	96.7	97.3	97.3	97.3	7/13	98,0	40.0	40.0	98.0	98.0	98.0
≥ 500 ≥ 400		90.7	92.7	96.0	96.7	97.3	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	100.0	99.3
≥ 300		90.7	92.7	96.0	96,7	97.3	98.7	98.7	98.7	98.7	99.3	99,3	99.3	99.3	100.0	100.0
≥ 200		90.7	92.7	96.0	96.7	97.3	98.7	98.7	98.7	98,7	99,3	99,3	99,3	99.3	100.0	100.0
≥ 100 ≥ 0		90.7	92.7	96.0	96.7	97.3	98.7	98.7	98.7	98.7	99.3	99.3	99,3		100.0	

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMO

### **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							V131	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22,0	22.0	22.0	22.0	22.0	
≥ 20000		29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29,3	29.3	29.3	29.3	29.3		-
≥ 18000		30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 16000		30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30,7	30.7	30.7	30.7	30.7	30.7	30.7
≥ 14000		31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31,3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 12000		32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
≥ 10000		36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 9000		36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
≥ 8000		36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
≥ 7000		37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37,3	37.3	37.3	37.3	37.3	37.3	37.3
≥ 6000		37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
≥ 5000		37.3	37.3	37.3	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
≥ 4500		37.3	37.3	37.3	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
≥ 4000		38.0	38.0	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 3500		41.3	41.3	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 3000		56.7	56.7	56.7	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 2500		80.0	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 2000		91.3	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1800		91.3	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	
≥ 1500		96.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		96.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.1
≥ 1000		96.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900		96.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800		96.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
> 700		96.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700 ≥ 600		96.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
		96.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3		100.0	
≥ 500 ≥ 400		96.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.2	99.3	99.3	99: 2		100.0	
		96.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3		100.0	
≥ 300 ≥ 200		96.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3		100.0	
			98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3			
≥ 100		96.7	98.7	98.7	99.2	99.3		99.3	99.3	99.3	99.3	99.3		90.3	100.0	100.0
= -		7001	7011	400	77.5	77.3	99.3	77.3	77.3	,,13	77.3	7793	,,,,	7703	100.0	100.0

150 TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

0

0

# **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

5703 CEILING VERSUS VISIBILITY JAN 78

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		31.3	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.7	32.7	32.7	32,7	32.7	32.7	32.7
≥ 20000		43.3	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.7	44,7	44.7	44.7	44.7	44.7	44.7
≥ 18000 ≥ 16000		44.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 14000 ≥ 12000		46.0	46.7	46.7	46.7	46.7	46.7	46.7	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 10000		49.3	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 9000		49.3	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 8000		50.7	51,3	51.3	51.3	51.3	51.3	51.3	51.3	52,0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 7000		50.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52,7	52,7	52.7	52.7	52.7	52.7	52.7
≥ 6000 ≥ 5000		50.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.7	54.0	54.0	54.0	52.7	54.0	52.7
≥ 4500		51.3	53,3	53.3	53,3	53.3	53.3	53,3	53.3	34,0	54,0	54.0	54,0	54.0	54.0	54.0
≥ 4000		52.7	54.7	54.7	54.1	54.7	54.7	54.7	34.1	22.3	33.3	22.3	22.3	22.3	22.3	32.3
≥ 3500 ≥ 3000		61.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	84.0	84.0	84.0	84.0	84-0	84.0	84.0
≥ 2500		88.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 2000		90.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1800 ≥ 1500		90.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7
		93.3	96.7	96.7	96.7	96.7	97.3	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200 ≥ 1000		94.7	98.0	98.0	98.0	98.0	98.7	99.3	99.3	100,0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900 ≥ 800		94.7	98.0	98.0	98.0	98.0	98.7	99.3	99.3	100.0			100.0	100.0	100.0	100.0
≥ 700		94.7	98.0	98.0	98.0	98.0	98.7	99.3	99.3			-	-	100.0		100.0
≥ 600		94.7	98.0	98.0	98.0	98.0	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		94.7	98.0	98.0	98.0	98.0	98.7	99.3	99.3		100.0		100.0			100.0
≥ 400		94.7	98.0	98.0	98.0	98.0	98.7	99,3	99.3	100.0				100.0		
≥ 300 ≥ 200		94.7	98.0	98.0	98.0	98.0	98.7	99.3	99.3	100.0	100.0		100.0	100.0	100.0	100-0
≥ 100		94.7	98.0	98.0	98.0	98.0	98.7	99.3	99.3	100:0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		94.7	98.0	98.0	98.0	98.0	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

# **CEILING VERSUS VISIBILITY**

12925

2

CHASE FIELD, TEXAS

73-77

YEARS

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

18

0

0

5703 CEILING VERSUS VISIBILITY JAN 78

0

0

0

CEILING							VISI	BILITY (STA	TUTE MILI	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 20000		78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 18000 ≥ 16000		78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78 . 7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 14000 ≥ 12000		78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78,7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 10000 ≥ 9000		85.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.
≥ 8000 ≥ 7000		85.3	86.7	86.7	86.7	85.7	86.7	86.7	86.7	87.3	86.7	86.7	86.7	86.7	86.7	86.7
≥ 6000 ≥ 5000		86.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.2
≥ 4500 ≥ 4000		87.3	88.7	88.7	88.7	88.7	88.7	88.7	88,7	90.0	88,7	88.7	88.7	88.7	88.7	88.7
≥ 3500 ≥ 3000		90.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92,0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2560 ≥ 2000		94.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1800 ≥ 1500		95.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200 ≥ 1000		96.7	99.3	99.3	99.3	99.3	100.0		00.0	100.0		100.0	100.0	100.0	100.0	100.0
≥ 900 ≥ 800		96.7	99.3	99.3	99.3	# 46 H	100.0	100.0		100.0	100.0	00.0	100.0	100.0	100.0	100.0
≥ 700 ≥ 600		96.7	99.3	99.3	99.3	99.3	100.0		00.0	100,0	00.0		100.0	100.0	100.0	100.0
≥ 500 ≥ 400		96.7	99.3	99.3	99.3	99.3	100.0		00.0	100.0	100.0	100.0	100.0	100.0		100.0
≥ 300 ≥ 200		96.7	99.3	99.3	99.3	99.3	100.0		100.0	100,0	100.0	100.0	100.0	100.0		100.0
≥ 100 ≥ 0		96.7	99.3	99.3	99,3			100.0	00.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21

0

5703 CEILING VERSUS VISIBILITY

0

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70,7	70.7	70,7	70.7	70.7	70.
≥ 18000 ≥ 16000		80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7		80.7	80.
≥ 14000 ≥ 12000		80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80,7	80.7	80.7	82.0	80.7	80.7	80
≥ 10000 ≥ 9000		84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84
≥ 8000 ≥ 7000		84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85
≥ 6000 ≥ 5000		84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85
≥ 4500 ≥ 4000		84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85
≥ 3500 ≥ 3000		85.3	86.0		86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86
≥ 2500 ≥ 2000		85.3	86.0	86.0	86.0	86.0	86.0	86.0	85.0	86.0	86.0	86.0			86.0	86
≥ 1800 ≥ 1500		88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88,7	88.7	88.7	88.7	88.7	88.7	88
≥ 1200 ≥ 1000		93.3	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	95.3	95
≥ 900 ≥ 800		96.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98
≥ 700 ≥ 600		96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99
≥ 500 ≥ 400		96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99
≥ 300 ≥ 200		97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99,3	99.3	99.3	99.3	100.0	100
≥ 100 ≥ 0		97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99,3	99.3	99.3	99.3	99.3	100.0	100

TOTAL NUMBER OF OBSERVATIONS 150

# **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

73-77

1116

0

0

5703 CEILING VERSUS VISIBILITY

JAN 7

8119

(1)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		43.1	44.5	45.6	46,6	46.7	47.4	47.9	47.9	48,3	48.3	48.3	48.3	48.3	48.5	48.6
≥ 20000		51.6	53.1	54.3	55,4	55.5	56.3	56,8	56.	57.1	57,2	57.2	57,2	57.3	57.4	57.5
≥ 18000 ≥ 16000		51.8	53.3	54.5	55.4	55.8	56.4	57.0	56.9	57.3	57.4	57.3	57.3	57.4	57.6 57.7	57.7
≥ 14000 ≥ 12000		52.5	54.0	55.3	56.3	56.4	57,2	57.7	57.7	59.5	58.1	58.1	58.1	58.2	58.3	58.4
≥ 10000 ≥ 9000		56.2	57.8	59.3	60.8	60.5	61.3	61.8	61.8	62.2	62.3	62.3	62.3	62.3	62.5	62.6
≥ 8000 ≥ 7000		57.5	59.1	60.6	61.8	61.9	62.7	63.2	63.2	63.6	63.7	63.7	63.7	63.8	63.9	64.0
≥ 6000 ≥ 5000		57.7	59.3	60.8	62.0	62.2	62.9	63.4	63.4	63.8	63,9	63,9	63.9	64.0	64.2	64.3
≥ 4500 ≥ 4000		58.2 58.8	59.9	61.4	62.7	62.8	63.6	64.1	64.1	04.5	64,6	64.6	64,6	64.7	64.8	64.9
≥ 3500 ≥ 3000		60.6	62.5	64.0	65.3	65.4	66.2	66.7	66.7	67.1	67.2	67.2	67.2	67.3	67.4	67.5
≥ 2500 ≥ 2000		70.8	72.9	74.4	75.7	75.8	76.6	77.1	77.1	77.5	77.6	77.6	77.6	77.7	77.8	77.9
≥ 1800 ≥ 1500		76.5	78.8	80.4	81.7	81.6	82.7	83.2	83.2	83.6	83.7	83.7	83.7	83.8	83.9	84.0
≥ 1200 ≥ 1000		84.8	87.3	89.2	90,6	90.8	91.8	92.4	92.4	92.8	92.9	92.9	92.9	93.0	93.3	93.3
≥ 900 ≥ 800		87.6	90.3	92.3	93.8	94.1	95.2	95.8	95.8	96.2	96.3	96.3	96.3	96.3	96.6	96.7
≥ 700 ≥ 600		88.8	91.7	93.9	95.8	95.8	96.9	97.5	97.5	97,9	98.0	98.0	98.0	98.1	98.3	98.4
≥ 500 ≥ 400		88.9	91.9	94.3	95.9	96.2	97.5	98.1	98.1	98.5	98.7	98.7	98.7	98.8	99.1	99.2
≥ 300 ≥ 200		89.2	92.2	94.6	96.3	96.5	97.8	98.4	98.4	98.8	99.1	99.1	99.1	99.2	99.6	99.7
≥ 100 ≥ 0		89.2	92.2	94.6	96.3	96.5	97.9	98.5	98.5	99.0	99.3	99.3	99.3	99.4	99.8	100.0

1200 TOTAL NUMBER OF OBSERVATIONS

# **CEILING VERSUS VISIBILITY**

12925 CHASE FIELD, TEXAS

73-77

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

OO HOURS (L S T )

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	88.4	80.7	80.7	80.7	80.7	80.7	80.
≥ 18000 ≥ 16000		88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.
≥ 14000 ≥ 12000		89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.
≥ 10000 ≥ 9000		91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.6	91.0	91.0	91.
≥ 8000 ≥ 7000		92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92,9	92.9	92.9	92.9	92.9	92.9	92.
≥ 6000 ≥ 5000		92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.
≥ 4500 ≥ 4000		93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.
≥ 3500 ≥ 3000		93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	9316	93.6	93.6	93.6	93.6	93.6	93.
≥ 2500 ≥ 2000		94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.
≥ 1800 ≥ 1500		94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.
≥ 1200 ≥ 1000		95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96,1	96.1	96.1	96.
≥ 900 ≥ 800		96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98,1	98.1	98.1	98.1	98.1	98.1	98.
≥ 700 ≥ 600		96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.
≥ 500 ≥ 400		98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
≥ 300		98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100
≥ 100 ≥ 0		98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.

TOTAL NUMBER OF OBSERVATIONS

155

5703 CEILING VERSUS VISIBILITY JAN 78

# **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

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5703 0.

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		73.6	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.
≥ 18000 ≥ 16000		78.7	81.3	81.9	82.6		82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.
≥ 14000 ≥ 12000		78.7	81.3	81.9	82.6	82.6 83.2	82.6	82.6	82.6	82.6	82.6	82.6	83,2	82.6	82.6	82.
≥ 10000 ≥ 9000		81.9	84.5	85.2	85.8	85.8	85,8	85.8	85.8	85.8	85,8	85.8	85.8	85.8	85.8	85.
≥ 8000 ≥ 7000		85.8	88.4	89.0	89.7	90.3	90.3	90.3	90.3	90:3	90.3	90.3	90.3	90.3	90.3	90.
≥ 6000 ≥ 5000		86.5	89.0	89.7	90.3	91.0	91.0	91.0	91.0	91:0	91,6	91.0	91.0	91.0	91.0	91.
≥ 4500 ≥ 4000		87.7	90.3	91.0	91.6	92.3	92.3	92.3	92.9	92,9	92,3	92.3	92,3	92.9	92.9	92.
≥ 3500 ≥ 3000		88.4	91.0	91.6	92,3	92.9	92.9	92.9	92.9	92,9	92.9	92.9	92.9	92.9	92.9	92.
≥ 2500 ≥ 2000		89.0	91.6	92.3	92.9		93.6	93.6	93.6	93.6	93.6	93.6	93,6	93.6	93.6	93.
≥ 1800 ≥ 1500		89.7	92.3	92.9	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.
≥ 1200 ≥ 1000		91.6	94.8	95.5	96.1	97.4	97,4	98.1	97.4	97.4	97.4	97.4	98.1	97.4	98.1	97.
≥ 900 ≥ 800		92.3	95.5	96.1	96.8	98.1 98.1	98.1	98.1	98.1	98,1	98,1	98.1	98.1	98.1	98.1	98.
≥ 700 ≥ 600		92.3	95.5	96.1	96.8	98.1	98.1	98.1	98.1	98,1	98.1	98.1	98.1	98.1	98.1	98.
≥ 500 ≥ 400		93.6	96.8	97.4	98.1	99.4	100.0	99.4	99.4	99,4	99,4	99.4	99.4	99.4	99.4	99.
≥ 300 ≥ 200		94.2	97.4	98.1		100.0		the second second second	100.0	and the same of th		100.0	100.0			100.
≥ 100 ≥ 0		94.2	97.4	98.1		100.0								100.0		100.

155 TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

# **CEILING VERSUS VISIBILITY**

12925

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CHASE FIELD, TEXAS

73-77

YEARS

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

5703

CEILING VERSUS VISIBILITY

0

0

155

CEILING							VIS	BILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		36.1	40.0	45.8	49.7	52.9	55.5	59.4	60.0	62.6	63.2	63.2	64.5	64.5	64.5	64.5
≥ 20000		38.1	41.9	49.0	54.2	58.1	61.9	65.8	66.5	69.0	69.7	69.7	71.0	71.6	71.6	71.6
≥ 18000		38.1	41.9	49.0	54.2	58.1	61.9	65.8	66.5	69.0	69.7	69.7	71.0	71.6	71.6	71.6
≥ 16000		38.1	41.9	49.0	54.2	58.1	61.9	65.8	66.5	69.0	69.7	69.7	71.0	71.6	71.6	71.6
≥ 14000		39.4	43.2	50.3	55.5	59.4	63.2	67.1	67.7	70.3	71.0	71.0	72.3	72.9	72.9	72.9
≥ 12000		40.0	44.5	52.3	57.4	61.3	65.2	69.0	69.7	72,3	72.9	72,9	74.2	14.8	74.8	74.8
≥ 10000		41.3	45.8	54.2	60,0	63.9	68.4	72.3	72.4	1213	70.1	70.1	77,4	78.1	78.1	78.1
≥ 9000		41.3	45.8	54.2	60.0	63.9	68.4	72.3	15.4	1242	76.1	76.1	93 4	78.1	78.1	78.1
≥ 8000		45.2	-	58.7	65.2	69.0	73.6	77.4	79.4	81.9	81.3	81.3	82,6	83.2	83.2	83.2
≥ 7000		45.8	50.3	59.4	00.3	70.3	74.8	70.7	70 4	81.5	83.6	89.6	83.9	R4 8	84.5	84.
≥ 6000 ≥ 5000		45.8	50.3	59.4	69.0	70.3	74.8	70.1	81.9	HALE	25 2	85.2	86.5	87.1	87.1	87.1
		49.0	53.6	62.6	69.7	73.6	78.1	01.0	82.6	85.2	85.8	AS.R	87.1	87.7	87.7	87.
≥ 4500 ≥ 4000		49.0	53.6		49 7	73.6	78.1	01.0	82.6	85.0	85.8	85.8	87	87.7	87.7	87.
		49.7	54.3	63.2	70.3	74.2	78.7	82.6	83.2	85.R	86.5	86.5	87.7	88.4	88.4	88.4
≥ 3500 ≥ 3000		51.0	56.1	65.2	72.3	76.1	80.7	84.5	85.2	87.7	88.4	88.4	89.7	90.3	90.3	90.3
		51.0	56.1	65.2	72.3	76.1	81.3	85.2	85.8	88.4	89.0	89.0	90.3	91.0	91.0	91.0
≥ 2500 ≥ 2000		51.0		67.1	74.2	78.1	83.2	87.1	87.7	90.3	91.0	91.0	92.3	92.9	92.9	92.9
≥ 1800		51.6	57.4	67.7	74.8	78.7	83.9	87.7	88.4	91.0	91.6	91.6	92.9	93.6	93.6	93.6
≥ 1500		52.9	58.7	69.0	76.1	80.0	85.2	89.0	89.7	92.3	92.9	92.9	94.2	94.8	94.8	94.8
≥ 1200		53.6	59.4	69.7	77.4	81.3	86.5	90.3	91.0	93,6	94.2	94.2	95,5	96.1	96.1	96.1
≥ 1000		54.2	60.0	71.0	79.4	83.2	88.4	92.3	92.9	95.5	96.1	96.1	97,4	98.1	98.1	98.1
≥ 900		54.2	60.0	71.0	79.4	83.2	88.4	92.3	92.9	95.5	96,1	96.1	97.4	98.1	98.1	98.1
≥ 800		54.8	60.7	71.6	80.0	83.9	89.0	92.9	93.6	96.1	96.8	96.8	98.1	98.7	98.7	98.7
≥ 700		54.8	61.3	72.3	80,7	84.5	89.7	93.6	94.2	96,8	97,4	97,4	98,7	99.4	99.4	99.4
≥ 600		54.8	61.3	72.3	80.7	84.5	89.7	93.6	94.2	96.8	97.4	97.4	98.7	99.4	99.4	99.4
≥ 500		54.8	61.3	72.3	80.7	84.5	89.7	93.6	94.2	96.8	97,4	97.4	98,7	99.4	99.4	99.4
≥ 400		54.8	61.3	72.9	81.3	85.2	90.3	94.2	94,8	97.4	98,1	98.1	99,4		-	100.0
≥ 300 ≥ 200		54.6	61.3	72.9	81,3	85.2	90.3	94.2	94,8	97,4	98,1	98.1	77.4	Y	100.0	100.0
≥ 200		54.8	61.3	72.9	81.3	85.2	90.3	94.2	94,6	9794	98.1	30.1		100.0		
≥ 100		54.8	61.3	72.9	81.3	85.2	90.3	94.2	94.8	97.4	98.1	98.1			100.0	
≥ 0		54.8	61.3	72.9	81.3	85.2	90.3	94.2	94.8	97,4	98.1	98.1	77.4	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

09

0

5703 CEILING VERSUS VISIBILITY JAN 78

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		31.6	31.0	31.6	31.6	31.6	31,6	31.6	31.6	31.6	31,6	31.6	31.6	31.6	31.6	31.0
≥ 20000		35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35,5	35,5	35.5	35,5	35.5	35.5	35.
≥ 18000 ≥ 16000		35.5	35.5	35.5	35.5	35,5	35.5	35.5	35.5	35,5	35,5	35.5	35.5	35.5	35.5	35.
		35.5		32.00	35.5	34 1		35.5	34 1	36.1		36.1	36 1	34.1	36 1	
≥ 14000 ≥ 12000		36.1	36.8	36.1	36,1	30.1	36.8	30.1	36.1	36.8	36.8	36.8	26.8	36.8	36.8	36.
		36.6	41 2	30.8	36.8	30.0	4. 2	41 3	41 3	41.2	41 3	41.2	41 3	41.3	41.2	41
≥ 10000 ≥ 9000		41.3	41.9	41.9	71.4	41.9	41.0	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.
≥ 8000		45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.
≥ 7000		45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45,2	45,2	45.2	45,2	45.2	45.2	45.
≥ 6000		45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45,8	45,8	45.8	45,8	45.8	45.8	45.
≥ 5000		46.5	46.5	46.5	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.
≥ 4500		47.1	47.1	47.1	47.7	47.7	47.7	47.7	47.7	4797	47,7	47.7	47.7	47.7	47.7	47.
≥ 4000		47.1	47.1	47.1	47.7	47.7	47.7	47.7	47.7	47,7	47,7	47,7	47,7	47.7	47.7	47.
≥ 3500		47.1	47.1	47.1	47.7	47.7	47.7	47.7	47.7	47,7	47.7	47.7	47.7	47.7	47.7	47.
≥ 3000		47.7	47.7	47.7	48.4	48.4	48.4	48.4	48.4	48,4	48.4	48.4	48,4	48.4	48.4	48.
≥ 2500		50.3	50.3	50.3	51.0	51.0	51.0	51.0	51.0	21.0	51.0	51.0	31.0	51.0	51.0	51.
≥ 2000		59.4	59.4	60.0	60.7	60.7	60.7	60.7	60.7	60,7	60.7	60.7	60.7	60.7	60.7	60.
≥ 1800		63.9	63.9	64.5	65.2	65.2	65.2	65.2	65.2	65,2	65,2	65.2	65.2	65.2	65.2	65.
≥ 1500		77.4	77.4	78.1	78.7	78.7	78.7	78.7	78.7	78 , 7	78,7	78.7	78.7	78.7	78.7	78.
≥ 1200		84.5	85.2	85.8	86.5	86.5	86.5	86.5	86.5	86,5	86,5	86.5	86.5	86.5	86.5	86.
≥ 1000		95.5	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97,4	97.4	97,4	97.4	97.4	97.
≥ 900		95.5	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97,4	97.4	97,4	97.4	97.4	97.
≥ 800	14.5	95.5	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7	98.7	98.
≥ 700		95.5	96.8	97.4	98.7	98.7	98.7	98.7	98.7	98,7	98,7	98.7	99,4	99.4	99.4	99.
≥ 600		95.5	96.8	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98 . 7	99.4	99.4	99.4	99.
≥ 500		95.5	96.8	97.4	98.7	98.7	98.7	98.7	98.7	98,7	98.7	98.7	99.4	99.4	99.4	99.
≥ 400		95.5	96.8	97.4	98.7	98.7	99.4	99.4	99.4	99,4	99.4	99.4	100.0	100.0	100.0	100.
≥ 300		95.5	96.8	97.4	98.7	98.7	99.4	99.4	99.4	99,4	99.4	99.4	100.0	100.0	100.0	100.
≥ 200		95.5	96.8	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99,4	99.4	100.0	100.0	100.0	100.
≥ 100		95.5	96.8	97.4	98.7	98.7	99.4	99.4	99.4	99,4	99,4	99.4	100.0	100.0	100.0	100.
≥ 100 ≥ 0		95.5	96.8	97.4	98.7	98.7	99.4	99.4	99.4	99,4	99.4	99.4	100.0	100.0	100.0	100.

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

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400

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# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

YEARS

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12

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5703 CEILING VERSUS VISIBILITY

JAN O

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CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥4	≥ 3	≥ 21/2	≥ 2	≥ 11/4	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		36.8	36.8	36.8	36.8	36.8	36.8	36,8	36.8	36,8	36.8	36.8	36,8	36.8	36.8	36.
≥ 20000		44.5	44.5	44.5	44,5	44.5	44.5	44.5	44.5	44,5	44.5	44.5	44.5	44.5	44.5	440
≥ 18000 ≥ 16000		44.5	44.5	44.5	44,5	44.5	44.5	44.5	44.5	44.5	44,5	44.5	44,5	44.5	44.5	44.
≥ 14000 ≥ 12000		45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.
≥ 10000 ≥ 9000		46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.
≥ 8000		47.1	47.1	47.1	47.1	47.1	47,1	47.1	47.1	47.1	47,1	47.1	47,1	47.1	47.1	47.
≥ 7000		48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	46,4	48,4	48.4	48.4	48.4	48.4	48.4
≥ 6000 ≥ 5000		50.3	51.0	51.0	51.0		51.0	51.0	51.0	51,0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 4500 ≥ 4000		50.3	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 3500 ≥ 3000		53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.
≥ 2500 ≥ 2000		76.8	77.4	78.1	78.1	78.1	78,1	78.1	78.1	78 - 1	78.1	78.1	78,1	78.1	78.1	78.
≥ 1800 ≥ 1500		92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6	9316	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1200 ≥ 1000		97.4	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99,4	99.4	99.4	99.4	99.4	99.
≥ 900 ≥ 800		98.1	99.4	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700 ≥ 600		98.1	99.4	100.0	100.0	1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500 ≥ 400		98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300 ≥ 200		98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100,0	100,0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		98.1	99.4	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 155

# **CEILING VERSUS VISIBILITY**

12925 CHASE FIELD, TEXAS

73-77

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

0

0

5703 CEILING VERSUS VISIBILITY JAN 78

0

0

0

0

0

0

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.
≥ 20000		56.8	56.8	56.8	56.4	56,8	56.8	56.8	56.8	56.8	56,8	56.8	56,8	56.8	56.8	56.
≥ 18000 ≥ 16000		58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58,1	58.1	58 · 1 58 · 7	58.1	58.1 58.7	58.1	58.
≥ 14000 ≥ 12000		59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59,4	59.4	59.4	59.4	59.4	59.4	59.
≥ 10000 ≥ 9000		64.9	64.5	64.9	64.5	64.5	64.5	64.5	64.5	65.2	65.2	64.5	64.5	64.5	64.5	64.
≥ 8000 ≥ 7000		66.9	67.1	67.1	66.5	67.1	66.5	66.5	66.5	66,5	66.5		66.5	66.5	66.5	66.
≥ 6000 ≥ 5000		67.7	67.7	67.7	67,7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.
≥ 4500 ≥ 4000		68.4	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69
≥ 3500 ≥ 3000		72.9	72.9	73.6	73.6	73.6	73,6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.
≥ 2500 ≥ 2000		91.0	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92
≥ 1800 ≥ 1500		95.5	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.
≥ 1200 ≥ 1000		95.5	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.
≥ 900 ≥ 800		95.5	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.
≥ 700 ≥ 600		95.5	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98,7	98.7	98.7	98.7	98.7	98.
≥ 500 ≥ 400		96.1	97.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100,0	100.0	100.0		100.0	100.
≥ 300 ≥ 200		96.1	97.4	99.4	99.4	99.4	99.4	99.4	99.4	100,0	100,0	100.0	100.0	100.0		100.
≥ 100 ≥ 0		96.1	97.4	99.4	99.4	99.4	99.4	99.4			100.0	100.0	100.0	100.0	100.0	100

TOTAL	NUMBER	OF	OBSERVATIONS	1	5	5
				 _	_	۰

# **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11%	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		57.4	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58 9 7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000		81.9	82.0		83,2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 18000 ≥ 16000		82.6	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83,9	83,9	83.9	83.9	83.9	83.9	83.9
≥ 14000 ≥ 12000		83.2	86.5	84.5	84.5	84,5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.
≥ 10000 ≥ 9000		90.3	91.0	91.6	91.6	91.6	91.6	91.6	91.0		91.6	91.6	91.6	91.6	91.6	91.6
≥ 8000 ≥ 7000		92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6		93.6	93.6	93.6	93.6	93.6	100000000000000000000000000000000000000
≥ 6000 ≥ 5000		92.9	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.8
≥ 4500 ≥ 4000		93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.
≥ 3500 ≥ 3000		94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.
≥ 2500 ≥ 2000		95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.1
≥ 1800 ≥ 1500		96.1	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98 - 1	98.1	98.1	98.1	98.
≥ 1200 ≥ 1000		96.1	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.
≥ 900 ≥ 800		96.1	96.8	97.4	97.4	98.1	98,1	98.1	98.1	98.1	98,1	98.1	98.1	98.1	98.1	98.
≥ 700 ≥ 600		96.8	97.4	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500 ≥ 400		96.8	97.4	98.1	98.1	99.4	99,4	99.4	99.4	99,4	99,4		100.0	99.4	99.4	99.4
≥ 300 ≥ 200		96.8	97.4	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		96.8	97.4	98.1	98.7	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET

5703 CEILING VERSUS VISIBILITY 0

2

JAN 7

0

# **CEILING VERSUS VISIBILITY**

12925 CHASE FIELD, TEXAS

73-77

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21

0

0

5703 CEILING VERSUS VISIBILITY JAN 7

0

0

0

0

0

0

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ ?	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 18000 ≥ 16000		87.1	87.1	87.1	87.1	87.1 87.1	87.1	87.1	87.1	87.1	87.1	87.1 87.1	87.1	87.1	87.1	87.1
≥ 14000 ≥ 12000		87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.
≥ 10000 ≥ 9000		94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94,2	94.2	94.2	94.2	94.2	94.2
≥ 8000 ≥ 7000		96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96,1	96.1	96.1	96.1	96.1 96.1	96.1	96.
≥ 6000 ≥ 5000		96.1	96.1	96.1	96.1	4	96.8	96.1	96.1	96.1	96.8	96.1	96.8	96.1	96.1	96.
≥ 4500 ≥ 4000		97.4	97.4	97.4	97.4		97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.
≥ 3500 ≥ 3000		97.4	97.4	97.4	97.4		97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.
≥ 2500 ≥ 2000		97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.
≥ 1800 ≥ 1500		98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98 - 1	98.1	98 • 1 98 • 7	98.1	98.
≥ 1200 ≥ 1000		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99,4	99.4	99.4	99.4
≥ 900 ≥ 800		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4			99.4	99.4	99.4	99.4
≥ 700 ≥ 600		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500 ≥ 400		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100 · 0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300 ≥ 200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100,0	100.0	100.0	100.0
≥ 100 ≥ 0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

### **CEILING VERSUS VISIBILITY**

0

6

CHASE FIELD, TEXAS

73-77

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0

0

5763 CEILING VERSUS VISIBILITY

MR NAL

0

0

0

0

2

CEILING							VISI	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		54.1	54.9	55.7	56.3	56.7	57.0	57.5	57.6	57.9	58.0	58.0	58.2	58.2	58.2	58.2
≥ 20000		63.8	64.7	65.7	66.5	66.9	67.4	67.9	68.0	68 . 3	68.4	68.4	68.6	68.6	68.6	68.6
≥ 18000		64.1	65.0	66.1	66.8	67.3	67.7	68.2	68.3	68.6	68.7	68,7	68.9	69.0	69.0	69.0
≥ 16000		64.3	65.2	66.2	66.9	67.4	67.9	68.4	68.5	68.8	68.9	68.9	69.0	69.1	69.1	69.1
≥ 14000		64.9	65.8	66.9	67.6	68.1	68.6	69.0	69.1	69.4	69.5	69.5	69.7	69.8	69.8	69.8
≥ 12000		66.0	66.9	68.1	68.8	69.3	69.8	70.2	70.3	70.7	70.7	70.7	70.9	71.0	71.0	71.0
≥ 10000		68.9	69.8	71.1	71.9	72.3	72.9	73.4	73.5	73.8	73.9	73.9	74.0	74.1	74.1	74.1
≥ 9000		69.1	70.1	71.3	72.1	72.6	73.2	73.6	73.7	74.0	74.1	74.1	74.3	74.4	74.4	74.4
≥ 8000		71.4	72.3	73.6	74.5	75.1	75.7	76.1	76.2	76.5	76.6	76.6	76.8	76.9	76.9	76.9
≥ 7000		71.8	72.7	74.0	75.0		76.1	76.6	76.7	77.0	77.1	77.1	77.3	77.3	77.3	77.3
≥ 6000		72.1	73.1	74.4	75.3	75.9	76.5	76.9	77.0	77.3	77.4	77.4	77.6	77.7	77.7	77.7
≥ 5000		72.9	74.0	75.3	76.4	76.9	77.5	78.0	78.1	78.4	78.5	78.5	78.6	78.7	78.7	78.7
> 4500		73.4	74.4	75.8	76.9		78.0	78.5	78.6	78.9	79.0	79.0	79.1	79.2	79.2	79.2
≥ 4500 ≥ 4000		74.0	75.0	76.4	77.4	78.0	78.6	79.0	79.1	79.4	79.5	79.5	79.7	79.8	79.8	79.8
		74.7	75.7	77.1	78.2		79.3	79.8	79.8	60.2	80.2	80.2	80.4	80.5	80.5	80.5
≥ 3500 ≥ 3000		77.1	78.2	79.7	80.7	81.3	81.9	82.3	82.4	82.7	82.8	82.8	83.0	83.1	83.1	83.1
		80.7	81.9	83.4	84.5		85.7	86.2	86.3	86.6	86.7	86.7	86.9	86.9	86.9	86.9
≥ 2500 ≥ 2000		84.3	85.7	87.4	88.6		89.9	90.4	90.5	90.8	90.9	90.9	91.1	91.1	91.1	91.1
		85.2	86.6	88.4	89.3	90.2	90.9	91.4	91.5	91.8	91.9	91.9	92.0	92.1	92.1	92.1
≥ 1800 ≥ 1500		88.1	89.5	91.3	92.4	93.2	93.8	94.3	94.4	94.7	94.8	94.8	94.9	95.0	95.0	95.0
		89.2	90.8	92.6	93.8			95.7	95.7	96.1	96.1	96.1	96.3	96.4	96.4	96.4
≥ 1200 ≥ 1000			92.7	94.5	95.8		95.2	97.7	97.7	98.2	98.2	98.2	98'4	98.5	98.5	98.5
	-	91.0	92.7	94.9			97.2	97.7	97.7	98.2	98.2	98.2	98.4	90.5	98.5	98.5
≥ 900 ≥ 800		91.0		4 4 4	95,8				98.0	98.4	98.5	98.5	98.7	98.8		
		91.1	92.8	94.7	96.0		97.4	97.9	98.3	98.7	98.8	90.0			98.8	98.5
≥ 700 > 600		91.2	93.1	,	96,3	1 1 1 1 1 1 1 1	97,7	98.2		99.1		70.0		99.1		
≥ 600		91.5	93.3	95.2	96.7	97.5	98.2	98.6	98.7		99.2	99.2	99.4	99.5	99.5	99.5
≥ 500 ≥ 400		91.6	93.5	95.4	96,9		98.3	98.8	98.9	99.3	99,4	99.4	99.6	99.7	99.7	99.7
≥ 400		91.7	93.6	95.6	97.1	97.9	98.6	99.1	99.2	99,6	99.7	99.7	77,9	100.0		
≥ 300		91.7	93.6	95.6	97,1	97.9	98.6	99.1	99.2	99,6	99,7	99.7	24.4	100.0		100.0
≥ 200		91.7	93.6	95.6	97.1	97.9	98.6	99.1	99.2	99,6	99.7	99.7		100.0		
≥ 100 ≥ 0		91.7	93.6	95.6	97.1	97.9	98.6	99.1	99.2	39.6	99.7	99.7		100.0		
≥ 0		91.7	93.6	95.6	97.1	97.9	98.6	99.1	99.2	99.6	99.7	99.7	99.9	100.0	100.0	100.0

1240 TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

# **CEILING VERSUS VISIBILITY**

12925 CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

00

6888

0

5703

CEILING VERSUS VISIBILITY

						VIS	BILITY (ST	ATUTE MIL	ES)						
≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
	79.4	80.0	81.3	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6				82.
							-								93.
		91.0		92.9	The state of the same			93.0	93.6	93.6	93.6	93.6			93.
	91.0	91.6	92.9	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.
	92.9	93.6	94.8	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.
															96.
	21 - 64										100000000000000000000000000000000000000				96.
															98.
					-							98.7			98.
		96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.
	95.5	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99,4	99.4	99.4	99.
	95.5	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.
		96.8		98,7	The second of the second									99.4	99.
		-		-											99.
			98.7	99.4											
	96.1	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
	96.1	97,4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
			98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
				5.5	00.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100-0	100
				99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
	96.1	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.
	96.1	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
	96.1	97.4	98.7	99.4											
	96.1	97.4	98.7												
	≥ 10	79.4 90.3 90.3 90.3 91.0 92.9 93.6 93.6 94.2 94.8 95.5 95.5 95.5 95.5 95.5 95.5 95.5 95	79.4 80.0 90.3 91.0 90.3 91.0 90.3 91.0 91.0 91.6 92.9 93.6 93.6 94.2 94.2 95.5 94.8 96.1 95.5 96.8 95.5 96.8 95.5 96.8 95.5 96.8 95.5 96.8 95.7 96.8 95.9 96.8 95.1 97.4 96.1 97.4	79.4 80.0 81.3 90.3 91.0 92.3 90.3 91.0 92.3 91.0 91.0 92.3 91.0 91.0 92.9 92.9 93.6 94.8 93.6 94.2 95.5 94.2 95.5 96.3 94.8 96.1 97.4 95.5 96.8 98.1	79.4 80.0 81.3 81.9 90.3 91.0 92.3 92.9 90.3 91.0 92.3 92.9 91.0 91.6 92.9 93.6 92.9 93.6 94.8 95.5 93.6 94.2 95.5 96.1 94.2 95.5 96.8 97.4 98.1 94.8 96.1 97.4 98.1 94.8 96.1 97.4 98.1 95.5 96.8 98.1 98.7	79.4 80.0 81.3 81.9 81.9 90.3 91.0 92.3 92.9 92.9 90.3 91.0 92.3 92.9 92.9 91.0 91.0 92.3 92.9 92.9 91.0 91.0 91.0 92.9 93.6 93.6 93.6 93.6 94.8 95.5 95.5 93.6 94.2 95.5 96.1 96.1 93.6 94.2 95.5 96.1 96.1 94.2 95.5 96.3 97.4 97.4 94.8 96.1 97.4 98.1 98.1 98.1 98.1 98.1 98.1 98.1 98.1	≥ 10       ≥ 6       ≥ 5       ≥ 4       ≥ 3       ≥ 2½       ≥ 2         79.4       80.0       81.3       81.9       81.9       82.6         90.3       91.0       92.3       92.9       92.9       93.6         90.3       91.0       92.3       92.9       92.9       93.6         91.0       91.0       92.9       93.6       93.6       94.2       92.9       93.6       94.2       92.9       93.6       94.2       92.9       93.6       93.6       94.2       92.9       93.6       93.6       94.2       92.9       93.6       93.6       94.2       92.9       93.6       93.6       94.2       95.5       95.5       96.1       96.1       96.8       93.6       94.2       95.5       96.1       96.8       98.1       96.1       96.1       96.8       98.1       96.1       96.1       96.8       98.1       98.1       98.7       98.7       99.4	≥ 10       ≥ 6       ≥ 5       ≥ 4       ≥ 3       ≥ 2½       ≥ 2       ≥ 1½         79.4       80.0       81.3       81.9       81.9       82.6       82.6         90.3       91.0       92.3       92.9       92.9       93.6       93.6         90.3       91.0       92.3       92.9       92.9       93.6       93.6         91.0       91.0       92.9       93.6       93.6       94.2       94.2         92.9       93.6       94.8       95.5       95.5       96.1       96.1       96.6       96.6         93.6       94.2       95.5       96.1       96.1       96.8       96.8         93.6       94.2       95.5       96.1       96.1       96.8       96.8         93.6       94.2       95.5       96.1       96.1       96.8       96.8         93.6       94.2       95.5       96.1       96.1       96.8       96.8         94.8       96.1       97.4       97.4       98.1       98.7       98.7       98.7       98.7         94.8       96.1       97.4       98.7       98.7       99.4       99.4         95.5	≥ 10 ≥ 6 ≥ 5 ≥ 4 ≥ 3 ≥ 2% ≥ 2 ≥ 1% ≥ 1% 79.4 80.0 81.3 81.9 81.9 82.6 82.6 82.6 82.6 90.3 91.0 92.3 92.9 92.9 93.6 93.6 93.6 93.6 90.3 91.0 92.3 92.9 92.9 93.6 93.6 93.6 93.6 91.0 91.0 92.3 92.9 92.9 93.6 93.6 93.6 93.6 93.6 93.6 93.6 94.2 94.2 94.2 92.9 93.6 94.8 95.5 95.5 96.1 96.1 96.1 96.1 93.6 94.2 95.5 96.1 96.1 96.8 96.8 96.8 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93.6	79.4 80.6 81.3 81.9 81.9 82.6 82.6 82.6 82.6 90.3 91.0 92.3 92.9 92.9 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93	210 ≥ 6 ≥ 5 ≥ 4 ≥ 3 ≥ 2½ ≥ 2 ≥ 1½ ≥ 1½ ≥ 1 ≥ 4  79.4 80.6 81.3 81.9 81.9 82.6 82.6 82.6 82.6 82.6 90.3 91.6 92.3 92.9 92.9 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93	210 ≥ 6 ≥ 5 ≥ 4 ≥ 3 ≥ 2½ ≥ 2 ≥ 1½ ≥ 1½ ≥ 1 ≥ 4 ≥ 4	210 ≥ 6 ≥ 5 ≥ 4 ≥ 3 ≥ 2½ ≥ 2 ≥ 1½ ≥ 1½ ≥ 1 ≥ ½ ≥ 4 ≥ ½  79.4 80.6 81.3 81.9 81.9 82.6 82.6 82.6 82.6 82.6 82.6 82.6 82.6	210 26 25 24 23 224 22 216 216 21 24 24 24 25 26 26 26 26 26 27 36 31 31 31 31 31 31 31 31 31 31 31 31 31	2 10

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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CEILING VERSUS VISIBILITY

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CEILING							VISI	BILITY (STA	ATUTE MILI	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		65.8	69.0	71.6	73.6	73.6	73.6	74.2	74.2	74.8	74.8	74.8	75.5	75.5	75.5	75.5
≥ 20000		75.5	79.4	82.6	84.5	84,5	84.5	85.2	85.2	85,8	85,8	85.8	86.5	86.5	86.5	86.
≥ 18000 ≥ 16000		75.5	79.4	82.5	84.5	84.5	84.5	85.2	85.2	85.8	85,8	85.8	86.5	86.5	86.5	86.
≥ 14000 ≥ 12000		75.8	80.7	84.5	85.8	85.8	85.8	86.5	86.5	87.1	87.1	87.1	87.7	87.7	87.7	87.
≥ 10000 ≥ 9000		79.4	83.2	86.5	88.4	88.4	88.4	89.0	89.0	89.7	89.7	89.7	90.3	90.3	90.3	90.
≥ 8000 ≥ 7000		80.7	84.5	87.7	89.7	89.7	89.7	90.3	90.3	91.0	91.0	91.0	91.6	91.6	91.6	91.6
≥ 6000 ≥ 5000		80.7	84.5	87.7	89,7	89.7	89.7	90.3	90.3	91.0	91.0	91.0	91.6	91.6	91.6	91.6
≥ 4500 ≥ 4000		83.2	87.1	90.3	92.3	92.3	92.3	92.9	92.9	93.6	93.6	93.6	94.2	94.2	94.2	94.
≥ 3500 ≥ 3000		83.9	87.7	91.0	92.9	92.9	92.9	93.6	93.6	94.2	94.2	94.2	94.8	94.8	94.8	94.
≥ 2500 ≥ 2000		84.5	88.4	91.6	93.6	93.6	93.6	94.2	94.2	94.8	94.8	94.8	95.5	95.5	95.5	95.
≥ 1800 ≥ 1500		85.2	91.6	92.3	94,2	94.2	94.2	94.8	94.8	95.5	95,5	98.1	96.1	96.1	96.1	96.
≥ 1200 ≥ 1000		88.4	92.3	95.5	97.4	97.4	97.4	98.1	98.1	98.7	98.7	98.7	99.4	99.4	99.4	99.
≥ 900 ≥ 800		88.4	92.3	95.5	97.4	97.4	97.4	98.1	98.1	98,7	98.7	98.7	99.4	99.4	99.4	99.
≥ 700 ≥ 600		88.4	92.3	95.5	97.4	97.4	97.4	98.1	98.1	98.7	98.7	98.7	99.4	99.4	99.4	99.
≥ 500 ≥ 400		89.4	92.3	95.5	97.4	97.4	97.4	98.1	98.1	98,7	98,7	98.7	100,0	100.0	99.4	99.
≥ 300 ≥ 200		89.0	92.9	96.1	98.1	98.1	98.1	98.7	98.7	99,4	99,4	99.4	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		89.0	92.9	96.1	98.1	98.1	98.1	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.

TOTAL NUMBER OF OBSERVATIONS

155

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### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING							VIS	BILITY (STA	ATUTE MILI	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		32.3	38.1		51.0	52.3	57.4	58.7	58.7	70.3	72.3	72.3	74.2	67.7	74.8	74.8
≥ 18000 ≥ 16000		34.8	40.7	50.3	57.4	58.7	63.9	65.2	65.2	70.3	72,3	72.3	74.2	74.2	74.8	74.8
≥ 14000 ≥ 12000		34.8	41.3	51.0	58.1 59.4	59.4	65.8	67.1	67.1	71.0	72.9	72.9	76.1	74.8	75.5	75.5
≥ 10000 ≥ 9000		38.7	46.5	56.1 56.1	63.2	64.5	69.7	71.0	71.0	76,1	78,1	78.1	80.0	80.0	80.7	80.7
≥ 8000 ≥ 7000		41.3	50.3	58.7	67.7	69.0	73.6	74.8	76.1	80.0	81.9	81.9	85.2	83.9	85.8	84.5
≥ 6000 ≥ 5000		42.6	50.3	61.3	69.0	70.3	74.8	76.1	76.1	82.6	83.2	83.2	85.2	85.2	85.8	85.8
≥ 4500 ≥ 4000		43.9	51.6	61.9	69.0	70.3	76.1	77.4	77.4	63.2	84,5	85.2	86,5	86.5	87.1	87.1
≥ 3500 ≥ 3000		45.2	54.2	63.9	70.3	71.6	77.4	80.0	78.7	85,2	85.8	87.1	89.0	87.7	89.7	88.4
≥ 2500 ≥ 2000		47.1	55.5	65.2	72.9	74.2	80.7	81.3	81.9	87.1	89,0	89.0	90.3	90.3	91.6	91.6
≥ 1800 ≥ 1500		47.7	55.5	65.2	73,6	74.8	80.7	81.9	81.9	67,1	89,0	89.0	91.0	91.0	91.6	91.6
≥ 1200 ≥ 1000		49.7	57.4	67.7	75,5	78.1	83.2	85.8	85.8	91.0	92,3	92.9	94.8	94.8	95.5	94.8
≥ 900 ≥ 800		49.7	58.1	68.4	76.8	78.1	84.5	86.5	86.5	91,6	92.9	93,6	96.1	96.1	95.5	96.8
≥ 700 ≥ 600		50.3	58.7	69.0	77.4	80.0	85.2	88.4	88.4	92:3	94.2	95.5	98.1	96.8	98.7	98.7
≥ 500 ≥ 400		50.3	58.7	69.0	78.1	80.0	85.8	88.4	88.4	93,6	95,5	95,5	98.1	98.1 98.1	AA -	100.0
≥ 300 ≥ 200		50.3	58.7	69.0	78.1	80.0	85.8	88.4	88.4	93,6	95,5	95.5	98.1	98.1	98.7	100.0
≥ 100 ≥ 0		50.3	58.7	69.0	78.1	80.0	85.8	88.4	88.4	93.6	95.5	95.5	98,1	98.1		100.0 100.0

TOTAL NUMBER OF OBSERVATIONS

155

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5703 CEILING VERSUS VISIBILITY JAN 78

# **CEILING VERSUS VISIBILITY**

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CHASE FIELD, TEXAS

73-77

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

09

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		29.0	31.6	32.3	32.3	32.9	33.6	34.2	34.2	34.2	34.2	34.2	34,2	34.2	34.2	34.
≥ 20000		33.6	36.1	36.8	36.8	37.4	38.1	38.7	38.7	38,7	38.7	38.7	38.7	38.7	38.7	38.
≥ 18000 ≥ 16000		33.6	36.1	36.8	36.8	37.4	38.1	38.7	38.7	38,7	38.7 38.7	38.7	38.7	38.7	38.7	38.
≥ 14000 ≥ 12000		34.2	36.8	37.4	37.4	38.1	38.7	39.4	39.4	39.4	39,4	39.4	39.4	39.4	39.4	39.
≥ 10000 ≥ 9000		42.6	45.8	47.7	47.7	50.3	49.7	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.
≥ 8000 ≥ 7000		46.5	50.3	51.6	51.6	52.3	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.
≥ 6000 ≥ 5000		47.1	50.3	52.9	52.9	53.6	54.8	55.5	55.5	55.5	55,5	55.5	55,5	55.5	55.5	55.
≥ 4500 ≥ 4000		47.7	51.0	53.6	53.6	54.2	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.
≥ 3500 ≥ 3000		47.7	51.0	53.6	53.6	54.2	55.5	56.8	56.8	56.8	56.1	56.1	56.8	56.8	56.8	56.
≥ 2500 ≥ 2000		50.3	53.6	56.1	56.1	56.8	58.1	58.7	58.7	58.7	58.7	58.7	58,7	58.7	58.7	58.
≥ 1800 ≥ 1500		61.3	74.2	67.1	76.8	67.7	69.0	69.7	69.7	79.4	69.7	79.4	69.7	69.7	69.7	69.
≥ 1200 ≥ 1000		78.1	81.3	83.9	83.9	91.6	86.5	87.1	87.1	94.2	87.1	87.1	94.2	87.1	94.2	87.
≥ 900 ≥ 800		85.8	89.0	91.6	92.3	92.9	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.
≥ 700 ≥ 600		87.7	91.0	93.6	94.2	94.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.
≥ 500 ≥ 400		88.4	92.3	96.1	96.8	97.4	99.4	100.0	100.0	100,0	100.0		100.0	100.0	100.0	100.
≥ 300 ≥ 200		88.4	92.3	96.1	96.8	97.4		100.0		100.0	100.0	100.0	100,0	100.0	100.0	100.
≥ 100 ≥ 0		88.4	92.3	96.1	96.8	97.4	99.4	100.0	100.0	100,0	100,0	100.0	100.0	100.0		100.

TOTAL NUMBER OF OBSERVATIONS 155

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5703 CEILING VERSUS VISIBILITY JAN

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# **CEILING VERSUS VISIBILITY**

12925 CHASE FIELD, TEXAS

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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5703 CEILING VERSUS VISIBILITY JAN 78

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CEILING							VIS	BILITY (ST	TUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		20.7	20.7	21.3	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
≥ 20000		29.7	29.7	30.3	31.0	31.0	31.0	31.0	31,0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 18000 ≥ 16000		29.7	29.7	30.3	31.0	31.0	31.0	31.0	31.0	31.6	31.0	31.0	31.0	31.0	31.0	31.6
≥ 14000 ≥ 12000		31.0	31.0	31.6	32,3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32,3	32.3	32.3	32.3
≥ 10000 ≥ 9000		39.4	39.4	40.0	41.3	41.3	41,3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.
≥ 8000 ≥ 7000		41.3	41.3	41.9	43,2	43,2	43,2	43.2	43.2	43.2	43.2	43.2	43,2	43.2	43.2	43.
≥ 6000		42.6	42.6	43.2	44,5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.
≥ 5000 ≥ 4500		44.5	44.5	45.2	46,5	46,5	46.5	46.5	46,5	40,5	46,5	46.5	46.5	46.5	46.5	46.
≥ 4000		47.1	47.1	47.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.
≥ 3500 ≥ 3000		50.3	50.3	51.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.
≥ 2500 ≥ 2000		79.4	79.4	80.0	81,3	81.3	81,3	81.3	81.3	91.0	81.3	81.3	81.3	81.3	81.3	81.
≥ 1800 ≥ 1500		88.4	95.5	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91,0	91.0	91.0	91.0	91.0	91.
≥ 1200		95.5	96.1	96.8	98.1	98.1	98.7	98.7	98.7	98.7	98,7	98.7	98.7	98.7	98.7	98.
≥ 900		95.5	96.1	96.8	98.1	98.1	98.7	98.7	98.7	98,7	98.7	98.7	98.7	98.7	98.7	98.
≥ 800 ≥ 700	6	95.5	96.1	96.8	98.1	98.1	98.7	99.4	99.4	99,4	99,4	99.4	99.4	99.4	99.4	99.
≥ 600		95.5	96.1	96.8	98.1	98.1	98.7	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.
≥ 500 ≥ 400		95.5	96.1	96.8	98.1	98.1	98.7	100.0	100.0	100,0	100,0	100.0	100,0	100.0	100.0	100.
≥ 400		95.5	96.1	96. R	98.1	98.1	98.7	100.0	100.0	100,0	100,0	100.0	100,0	100.0	100.0	100.
≥ 300 ≥ 200		95.5	96.1	96.8	98.1	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
≥ 200		95.5	96.1	96.8	98.1	98.1	98.7	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.
≥ 100		95.5	96.1	96.8	98.1	98.1		100,0	100.0		100,0				100.0	100.
≥ 100 ≥ 0		95.5	96.1	96.8	98.1	98.1	98.7	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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5703 CEILING VERSUS VISIBILITY JAN 78

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		24.5	24.5	25.2	25,8	25.8	25.8	25.8	25.8	45.8	25.8	25.8	25,8	25.8	25.8 45.8	25.
≥ 18000 ≥ 16000		45.8	45.2	45.8	46.5	46.5	46.5	47.1	46.5	46.5	47.1	47.1	47.1	46.5	46.5	46.
≥ 14000 ≥ 12000		46.5	52.9	47.1 53.6	47.7	47.7	47.7	54.2	54.2	54.2	54.2	54.2	54.2	47.7 54.2	47.7 54.2	47.
≥ 10000 ≥ 9000		54.8 55.5	55.5	55.5	56.8	56.8	56.1 56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.1 56.8	56.
≥ 8000 ≥ 7000		59.4	59.4	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.
≥ 6000 ≥ 5000		59.4	59.4	60.0	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61
≥ 4500 ≥ 4000		65.8	65.8	63.2	67.1	63.9	63.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.
≥ 3500 ≥ 3000		72.9	72.9	73.6	74.2	81.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	81
≥ 2500 ≥ 2000		92.3	92.3	92.9	93.6	93.6	89.7	89.7	89.7 93.6	93.6	93.6	93,6	93.6	93.6	89.7 93.6	93
≥ 1800 ≥ 1500		92.9	92.9	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	98.
≥ 1200 ≥ 1000		96.1	96.1	96.8	98.1	98.1 98.1	98.1	98.1	98.1	98,1	98.1	98.1	98.1	98.1	98.1 98.7	98
≥ 900 ≥ 800		96.1	96.1	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99,4	99.4	99.4	99.4	99.
≥ 700 ≥ 600		96.1	96.1	97.4	98.7	98.7	99.4	100.0		-					100.0	
≥ 500 ≥ 400		96.8	96.8	98.1	99.4	99.4	100.0		100.0	100,0	100.0	100.0	100.0	100.0	100.0	100
≥ 300 ≥ 200		96.8 96.8	96.8	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
≥ 100 ≥ 0		96.8	96.8	98.1	99.4										100.0	

TOTAL NUMBER OF OBSERVATIONS

155

# **CEILING VERSUS VISIBILITY**

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5703 CEILING VERSUS VISIBILITY

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12925 CHASE FIELD, TEXAS 73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		47.1	47.1	47.7	47.7	73.6	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	74.
≥ 18000 ≥ 16000		73.6	73.6	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.
≥ 14000 ≥ 12000		74.2	74.2	74.8	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.
≥ 10000 ≥ 9000		85.2	85.2	85.8	85.8		86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	
≥ 8000 ≥ 7000		92.3	92.3	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	
≥ 6000 ≥ 5000		92.9	92.9	93.6	93.6		94.2		94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.
≥ 4500 ≥ 4000		93.6	93.6	94.2	94.2	94.2		94.8	94,8	94.8	94.8	94.8	94.8	94.8	94.8	94.1
≥ 3500 ≥ 3000		94.8	94.8	95.5	95,5	95.5	96.1	96.1	96.1	96,1	96.1	96.1	96.1	96.1	96.1	96.
≥ 2500 ≥ 2000		96.8	96.8	97.4	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1800 ≥ 1500		97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98,7	98.7	98.7	98.7	98.7	98.7	98.
≥ 1200 ≥ 1000		97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.
≥ 900 ≥ 800		98.1	98.1	98.7	98.7	99.4	-	100.0		100.0			100.0	19.0	100.0	
≥ 700 ≥ 600		98.1	98.1	98.7	98.7	99.4	100.0	100.0	100.0	100.0			2	We .	100.0	
≥ 500 ≥ 400		98.1	98.1	98.7	98.7		100.0	100.0	100.0	100,0	100,0	100.0	100,0	100.0	100.0	100.0
≥ 300 ≥ 200		98.1	98.1	98.7	98.7	99.4	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		98.1	98.1	98.7	98.7	99.4	100.0	100.0	100.0	100:0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

# **CEILING VERSUS VISIBILITY**

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CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		71.6	71.6	71.6	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.
≥ 20000		85.2	85.2	85.2	85.6	85.8	86,5	86.5	86.5	86.5	86.5	86.5	86,5	86.5	86.5	86.
≥ 18000		85.8	85.8	85.8	86.5	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.
≥ 16000		85.8	85.8	85.8	86.5	86.5	87.1	87.1	87.1	87,1	87.1	87.1	87.1	87.1	87.1	87.
≥ 14000		88.4	88.4	88.4	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89,7	89.7	89.7	89.
≥ 12000		88.4	88.4	88.4	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.
≥ 10000		93.6	93.6	93.6	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.
≥ 9000		93.6	93.6	93.6	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.
≥ 8000		95.5	95.5	95.5	96:1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.
≥ 7000		96.1	96.1	96.1	96.8	96.8	97.4	97.4	97.4	97,4	97.4	97.4	97.4	97.4	97.4	97.
≥ 6000		96.1	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98 . 1	98.1	98.1	98.1	98.1	98.1	98.
≥ 5000		96.1	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98 . 1	98,1	98.1	98.1	98.1	98.1	98.
≥ 4500		96.1	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98 . 1	98.1	98.1	98.1	98.1	98.1	98.
≥ 4000		96.1	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.
≥ 3500		96.1	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.
≥ 3000		96.1	96.1	97.4	98,1	98.1	98.7	98.7	98.7	98 . 7	98,7	98.7	98.7	98.7	98.7	98.
≥ 2500		96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99,4	99.4	99.4	99.4	99.4	99.4	99.
≥ 2000		96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99,4	99.4	99.4	99.4	99.4	99.
≥ 1800		96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99,4	99.4	99.4	99.4	99.4	99.4	99.
≥ 1500		96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.
≥ 1200	16	96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99,4	99.4	99.4	99.4	99.4	99.
≥ 1000		96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99,4	99.4	99.4	99,4	99.4	99.4	99.
≥ 900		96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.
≥ 900 ≥ 800		97.4	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100+0	100.0	100.0	100.0	100.0	100.0	100.
≥ 700		97.4	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100,0	100,0	100.0	100.0	100.0	100.0	100.
≥ 700 ≥ 600		97.4	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100:0	100,0	100.0	100.0	100.0	100.0	100.
≥ 500		97.4	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.
≥ 500 ≥ 400	*	97.4	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.
≥ 300		97.4	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.
≥ 300 ≥ 200		97.4	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100,0	100,0	100.0	100.0	100.0	100.0	100.
		97.4	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.
≥ 100 ≥ 0	A LOCK	97.4	97.4	98.7	99.4	99.4	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.

TOTAL NUMBER OF OBSERVATIONS

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5703 CEILING VERSUS VISIBILITY JAN

# **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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5703 CEILING VERSUS VISIBILITY JAN 78

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						VIS	BILITY (ST	ATUTE MIL	ES)						
≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
	46.3	47.8	49.7	50.8	51.1	52.0	52.3	52.3	53.1	53.3	53.3	53.6	53.6	53.7	53.
	58.3	59,9	62.0	63.5	63.7	64.7	65.0	65.0	65.7	66,0	66.0	66,3	66.3	66.4	66.4
	58.6	60.2	62.3	63.7	64.0	64,9	65.2	65.2	0640	66.2	66.2	66,5	66.5	66.6	66.
		60.3	62.4	63.9	64.1	65.1	65.4		001	66.4	66,4	60.7	66.7		66.
	No. 100 1767			64.8		66.1			4111				- 4		67.
								-	74	manufacture and a second	-				70.
				4.		1.5			74.0		74.4	74 9			74.
				_		-			77.0	77 6	77.4	77 7	77 7		75.
									77.0	78.3		78. 8	78.5	- 0	77.
-		-	130	-		1000			78.0			78 4	78.4	96 /	78.
						.0,			70			79.5	79.5		79.
								-				79.9	79.9		80.
		100	2000										80.9		81.
								-	61.8	82.0	82.0	82.3	82.3	82.4	82.
		78.1		82.2	82.4	83.6	83.9	83.9	84.6	84.8	84.8	85.2	85.2	85.2	85.
	79.8	81.9	84.4	86.1	86.3	87.4	87.7	87.7	88,5	88.7	88.7	89.0	89.0	89.1	89.
	82.6	84.7	87.2	88.9	89.1	90.2	90.6	90.6	91.3	91.5	91.5	91,9	91.9	91.9	91.
	83.2	85.3	87.0	89.5	89.8	90.9	91.2	91.2	91,9	92.2	92.2	92.5	92.5	92.6	92.
	86.0	88.1	90.6	92.3	92.6	93.7	94.0	94.0	94,8	95.0	95.0	95.3	95.3	95.4	95.
	87.3	89.4	91.9	93.6	94.0	95.2	95.7	95.7		96.6	96,6	96.9	96.9	97.0	97.
	88.2	90.2		94.6	95.0	96.4	96.8	455	97,5	97.7	97.7	98.1		98.2	98.
			100	94.9		96.7	97.1	W. C. W. St.	97.8	98.1	98.1	98,4		98.5	98.
				95.2			97.4				98,4	98,8		98.9	99.
	22.72	and the second	- F W				97.7		20 mm		98.6			99.1	99.
						The second second second	98.1				99.0		99.4	99.5	99.
			C105 01 V 45 100	20.00	The second second second			98.3	77.0		99.3	99,7	99.7	99.8	77.
							90,4	78.4	99.1		77.0	77,8	77.8	-	100.
							90.4	90 4			99.4		90.0		100.
			400				90.4	70.9	00.		99.4		90.0		100.
20 11				4.7	4000			90.4	99.1		99.4		90.		100.
	≥ 10	46.3 58.3 58.67 59.66 62.5 65.9 66.3 68.9 69.5 70.9 71.9 73.3 76.1 79.8 82.6 83.2 86.2 88.3 88.5 88.5 88.6 89.0 89.0 89.0	46.3 47.8 58.3 59.9 58.6 60.2 58.7 60.3 59.6 61.3 62.5 64.4 65.9 67.8 66.3 68.2 68.9 70.5 70.5 71.5 70.9 72.9 71.9 73.9 73.3 75.3 76.1 78.1 79.8 81.9 82.8 84.7 83.2 85.3 86.0 88.1 87.3 89.4 88.2 90.2 88.3 90.4 88.5 90.7 88.7 90.9 88.8 91.1 89.0 91.2	46.3 47.8 49.7 58.3 59.9 62.0 58.6 60.2 62.3 58.7 60.3 62.4 59.6 61.3 63.4 62.5 64.4 66.5 65.9 67.8 70.1 66.3 68.2 70.5 68.9 70.9 73.2 69.5 71.5 73.9 70.5 74.0 70.5 72.5 74.0 70.5 72.5 74.0 70.5 72.5 74.0 70.7 72.5 74.0 70.9 72.9 75.3 71.9 73.9 76.3 73.3 75.3 77.7 76.1 78.1 80.6 79.8 81.9 84.4 82.6 84.7 87.2 83.2 85.3 87.6 85.3 89.4 91.9 86.2 90.2 92.8 88.3 90.4 93.1 88.5 90.7 93.3 88.7 90.9 93.6 88.8 91.1 93.7 88.9 91.2 94.0 89.0 91.2 94.0	46.3 47.8 49.7 50.8 58.3 59.9 62.0 63.7 58.7 60.3 62.4 63.7 58.7 60.3 62.4 63.7 59.6 61.3 63.4 64.8 62.5 64.4 66.5 68.0 65.9 67.8 70.1 71.6 66.3 68.2 70.5 72.0 68.9 70.9 73.2 74.9 69.5 71.5 74.0 75.5 70.9 72.9 73.3 75.3 76.9 71.9 73.9 76.3 77.7 79.4 76.1 78.1 80.6 82.2 79.8 81.9 84.4 86.1 82.6 84.7 87.2 88.9 83.2 85.3 87.3 89.4 91.9 93.6 88.2 90.2 92.8 94.6 88.3 90.4 93.1 94.9 88.5 90.7 93.3 95.2 88.7 90.9 93.6 95.4 88.5 90.7 93.3 95.2 88.9 91.1 94.0 95.4 88.5 90.7 93.3 95.2 88.9 91.1 94.0 95.4 88.5 90.7 93.3 95.2 88.9 91.2 94.0 96.0 89.0 91.2 94.0 96.0 89.0 91.2 94.0 96.0 89.0 91.2 94.0 96.0 89.0 91.2 94.0 96.0 89.0 91.2 94.0 96.0 89.0 91.2 94.0 96.0	46.3 47.8 49.7 50.8 51.1 58.3 59.9 62.0 63.5 63.7 64.0 58.7 60.2 62.3 63.7 64.0 58.7 60.3 62.4 63.9 64.1 59.6 61.3 63.4 64.8 65.1 62.5 64.4 66.5 68.0 68.2 65.9 67.8 70.1 71.0 71.9 66.3 68.2 70.5 72.0 72.3 68.9 70.9 73.2 74.6 75.0 69.5 71.5 73.9 75.5 75.7 75.5 75.5 75.5 75.5 75.5 75	46.3 47.8 49.7 50.8 51.1 52.0 58.3 59.9 62.0 63.5 63.7 64.0 64.9 58.7 60.2 62.3 63.7 64.0 64.9 58.7 60.3 62.4 63.9 64.1 65.1 62.5 64.4 66.5 68.0 68.2 69.2 65.9 67.8 70.1 71.6 71.9 72.9 66.3 68.2 70.5 72.0 72.3 73.3 68.9 70.9 73.2 74.8 75.0 76.1 69.5 71.5 73.9 75.5 75.7 76.9 70.5 72.5 74.0 75.6 75.8 76.9 70.7 72.9 76.3 77.9 78.2 79.3 73.3 75.3 77.7 79.4 79.6 80.7 76.1 78.1 80.0 82.2 82.4 83.6 79.8 81.9 84.4 86.1 86.3 87.4 82.6 84.7 87.2 88.9 89.1 90.2 83.2 85.3 87.8 89.5 89.8 90.9 86.0 88.1 90.4 92.3 92.6 93.7 87.3 89.4 91.9 93.6 94.0 95.2 88.3 90.4 93.1 94.9 95.3 96.7 88.3 90.4 93.1 94.9 95.3 96.7 88.3 90.4 93.1 94.9 95.3 96.7 88.3 90.4 93.1 94.9 95.3 96.7 88.9 90.7 93.3 95.2 95.6 96.9 88.9 90.1 94.0 95.0 96.4 97.7 89.0 91.2 94.0 96.0 96.4 97.7	46.3 47.8 49.7 50.8 51.1 52.0 52.3 58.3 59.9 62.0 63.5 63.7 64.0 64.9 65.2 58.7 60.3 62.4 63.9 64.1 65.1 65.4 65.4 63.9 64.1 65.1 65.4 62.5 64.4 66.5 68.0 68.2 69.2 69.5 65.9 67.8 70.1 71.0 71.9 72.9 73.2 66.3 68.2 70.5 72.0 72.3 73.3 73.6 68.9 70.9 73.2 74.6 75.0 76.1 76.5 69.5 71.5 73.9 75.5 75.7 76.9 77.3 70.5 72.9 73.9 75.5 75.7 76.9 77.3 70.5 72.9 73.9 75.5 75.7 76.9 77.3 70.5 72.9 73.9 76.9 77.3 70.5 72.9 73.9 76.9 77.2 78.3 78.6 75.0 76.1 76.9 77.3 70.5 72.9 73.9 76.9 77.2 78.3 78.6 75.0 76.1 76.9 77.3 70.5 72.9 73.9 76.9 77.2 78.3 78.6 75.0 76.1 76.9 77.3 70.5 72.9 75.3 76.9 77.2 78.3 78.6 75.0 76.1 76.9 77.9 78.2 79.3 79.6 80.7 81.1 76.1 78.1 80.6 82.2 82.4 83.6 83.9 79.8 81.9 84.4 86.1 86.3 87.4 87.7 82.6 84.7 87.2 88.9 89.1 90.2 90.6 83.2 85.3 87.0 89.5 89.8 90.9 91.2 86.0 88.1 90.6 92.3 92.6 93.7 94.0 86.3 87.4 87.7 88.9 99.1 90.2 90.6 88.1 90.6 92.3 92.6 93.7 94.0 88.3 90.4 93.1 94.9 95.3 96.7 97.1 88.5 90.7 93.3 95.2 95.6 96.9 97.4 88.5 90.7 93.3 95.2 95.6 96.9 97.4 88.5 90.7 93.3 95.2 95.6 96.9 97.4 88.5 90.7 93.3 95.2 95.6 96.9 97.4 88.5 90.7 93.3 95.2 95.6 96.9 97.4 88.9 91.1 94.0 95.9 96.3 97.7 98.4 89.0 91.2 94.0 96.0 96.4 97.7 98.4 89.0 91.2 94.0 96.0 96.4 97.7 98.4 89.0 91.2 94.0 96.0 96.4 97.7 98.4 89.0 91.2 94.0 96.0 96.4 97.7 98.4 89.0 91.2 94.0 96.0 96.4 97.7 98.4 89.0 91.2 94.0 96.0 96.4 97.7 98.4 89.0 91.2 94.0 96.0 96.4 97.7 98.4	46.3 47.8 49.7 50.8 51.1 52.0 52.3 52.3 52.3 58.3 59.9 62.0 63.5 63.7 64.0 64.9 65.2 65.2 58.7 60.3 62.4 63.9 64.1 65.1 65.4 65.4 65.4 62.5 64.4 66.5 68.0 68.2 69.2 69.5 69.5 69.5 65.9 67.8 70.1 71.0 71.9 72.9 73.2 73.2 66.3 68.2 70.5 72.0 72.3 73.3 73.6 73.6 68.9 70.9 73.2 74.8 75.0 76.1 76.5 76.5 69.5 71.5 73.9 75.5 75.7 76.9 77.2 77.2 77.2 77.2 77.2 77.3 77.3 77.3	46.3 47.8 49.7 50.8 51.1 52.0 52.3 52.3 53.1 58.3 59.9 62.0 63.5 63.7 64.9 65.0 65.0 65.0 65.7 58.6 60.2 62.3 63.7 64.0 64.9 65.2 65.2 66.0 58.7 60.3 62.4 63.9 64.1 65.1 65.4 65.4 66.1 62.5 64.4 66.5 68.0 68.2 69.2 69.5 69.5 70.2 65.9 67.8 70.1 71.6 71.9 72.9 73.2 73.2 74.0 66.3 68.2 70.5 72.0 72.3 73.3 73.0 73.0 73.0 74.4 68.9 70.9 73.2 74.6 75.0 76.1 70.5 76.5 77.2 69.5 71.5 74.0 75.6 75.8 76.9 77.2 77.2 77.2 77.9 69.5 71.5 74.0 75.6 75.8 76.9 77.2 77.2 77.2 77.9 70.5 72.5 74.9 70.5 76.8 77.9 78.2 78.2 79.0 70.9 72.9 73.9 75.5 75.7 76.9 77.2 77.2 77.0 72.5 74.9 70.5 76.8 77.9 78.2 78.2 78.2 79.0 70.5 72.5 74.9 70.5 76.8 77.9 78.2 78.2 78.2 79.0 70.9 72.5 74.9 70.5 76.8 77.9 78.2 78.2 78.2 79.0 70.9 72.5 74.9 70.5 76.8 77.9 78.2 78.2 78.2 79.0 70.9 72.5 74.9 70.5 76.8 77.9 78.2 78.3 78.6 78.6 79.4 71.9 73.9 76.3 77.9 78.2 79.3 79.6 79.6 80.7 71.5 75.7 76.1 76.1 81.1 81.1 81.1 81.1 81.1 81.1 81.1 8	46.3 47.8 49.7 50.8 51.1 52.0 52.3 52.3 53.1 53.3 58.3 59.9 62.0 63.5 63.7 64.7 65.0 65.0 65.0 65.7 66.0 58.6 60.2 62.3 63.7 64.0 64.9 65.2 65.2 66.0 66.2 58.7 60.3 62.4 63.9 64.1 65.1 65.4 65.4 66.4 66.1 66.4 67.3 67.8 76.1 71.0 71.9 72.9 73.2 73.2 74.0 74.2 66.3 68.2 70.5 72.0 72.3 73.3 73.2 74.0 74.2 66.3 68.2 70.5 72.0 72.3 73.3 73.0 73.0 74.4 74.6 69.5 71.5 73.9 73.2 74.0 74.2 69.5 71.5 73.9 73.2 74.0 74.0 69.5 71.5 73.9 73.2 74.0 74.0 69.5 71.5 73.9 75.5 75.7 76.9 77.2 77.2 77.9 69.5 71.5 73.9 75.5 75.7 76.9 77.2 77.2 77.9 78.2 70.5 72.5 74.0 75.6 75.8 76.9 77.2 77.2 77.9 78.2 70.5 72.5 74.0 75.6 75.8 76.9 77.2 77.2 77.9 78.2 70.5 72.5 74.0 75.6 75.8 76.9 77.2 77.2 77.9 78.2 70.5 72.5 74.0 75.6 75.8 76.9 77.2 77.3 77.3 78.0 78.2 70.5 72.5 74.0 76.5 76.5 77.2 77.9 78.2 70.5 72.5 74.0 75.6 75.8 76.9 77.2 77.3 77.3 78.0 78.2 70.5 72.5 74.0 75.6 75.8 76.9 77.2 77.3 77.3 78.0 78.2 70.5 72.5 74.0 75.6 75.8 76.9 77.2 77.3 77.3 78.0 78.2 79.0 79.2 70.9 72.9 75.3 76.9 77.2 78.3 78.2 79.0 79.0 79.2 70.9 72.9 75.3 76.9 77.2 78.3 78.0 78.2 79.0 79.0 79.2 70.9 72.9 75.3 76.9 77.2 78.3 78.0 78.2 79.0 79.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.0 97.2 97.5 97.7 97.0 97.5 97.7 97.0 97.5 97.7 97.0 97.5 97.7 97.7 98.4 98.9 98.4 99.0 99.0 99.3 97.1 97.1 97.1 97.1 97.1 97.1 97.1 97.1	46.3 47.8 49.7 50.8 51.1 52.0 52.3 52.3 53.1 53.3 53.3 58.3 59.9 62.0 63.5 63.7 64.7 65.0 65.0 65.0 65.7 66.0 66.0 58.6 60.2 62.3 63.7 64.0 64.9 65.2 65.2 66.0 66.2 66.2 58.7 60.3 62.4 63.9 64.1 65.1 65.4 65.4 66.1 66.4 66.4 67.1 67.3 67.3 67.3 62.6 64.4 66.5 68.2 69.2 69.5 69.5 70.2 70.5 70.5 65.9 67.8 70.1 71.6 71.9 72.9 73.2 73.2 74.0 74.2 74.2 66.3 68.2 70.5 72.0 72.3 73.3 73.0 73.6 74.4 74.6 74.6 68.3 68.2 70.5 72.0 72.3 73.3 73.6 73.6 74.4 74.6 74.6 69.5 71.5 73.9 73.2 74.0 75.5 75.7 76.9 77.2 77.9 78.2 78.2 78.2 70.5 72.5 74.9 75.5 75.7 76.9 77.2 77.2 77.9 78.2 78.2 70.5 72.5 74.9 75.5 75.8 76.9 77.3 77.3 78.0 78.2 78.2 79.2 70.5 72.5 74.9 76.5 76.5 77.2 77.9 78.2 78.2 70.5 72.5 74.9 76.5 76.8 77.9 78.2 78.2 79.0 79.2 79.2 70.5 72.5 74.9 76.3 77.7 79.8 78.2 78.2 79.0 79.2 79.2 70.5 72.5 74.9 76.3 77.7 79.8 78.2 78.2 79.0 79.2 79.2 70.5 72.5 74.9 76.3 77.7 79.8 78.2 78.2 79.0 79.2 79.2 70.5 72.5 74.9 76.3 77.7 79.4 79.6 80.7 81.1 81.0 81.0 82.0 82.0 76.1 78.1 80.6 82.2 82.4 83.6 83.9 83.9 83.9 84.0 84.8 84.8 84.8 87.8 87.7 87.2 88.2 85.3 87.8 89.5 89.1 90.2 90.6 90.6 91.3 91.5 91.5 83.2 85.3 87.8 89.5 89.4 90.9 91.2 91.2 91.9 92.2 92.2 86.0 88.1 90.4 93.1 94.9 95.0 96.9 97.4 97.4 98.2 98.4 98.4 98.4 98.1 98.2 90.2 92.8 94.0 95.0 95.0 97.4 97.4 98.2 98.4 98.4 98.4 98.1 98.1 98.2 90.9 97.4 98.2 98.4 98.4 98.4 98.4 98.1 98.2 90.9 97.4 97.7 97.7 98.2 98.4 98.4 98.4 98.4 98.1 98.2 90.9 93.6 95.0 95.0 95.0 97.4 97.4 98.2 98.4 98.4 98.4 98.4 98.4 98.4 99.1 93.7 95.7 96.1 97.4 98.1 98.1 98.1 98.1 98.1 98.1 98.2 90.9 93.6 95.0 95.0 95.0 97.4 97.4 98.2 98.4 98.4 99.1 93.7 95.7 96.1 97.4 98.1 98.1 98.2 99.0 99.0 99.0 99.0 99.0 99.0 99.0 99	46.3 47.8 49.7 50.8 51.1 52.0 52.3 52.3 53.1 53.3 53.3 53.6 58.2 59.9 62.0 63.5 63.7 64.7 65.0 65.0 65.7 66.0 66.0 66.3 58.2 59.9 62.0 63.5 63.7 64.0 64.9 65.0 65.0 65.0 65.7 66.0 66.2 66.2 66.5 58.7 60.2 62.4 63.9 64.1 65.1 65.4 65.4 65.4 66.1 66.4 66.7 62.5 64.4 66.5 68.0 68.2 69.2 69.5 69.5 70.2 70.5 70.5 70.5 62.5 64.4 66.5 68.0 68.2 69.2 69.5 69.5 70.2 70.5 70.5 70.5 62.5 64.4 66.5 68.0 68.2 69.2 69.5 69.5 70.2 70.5 70.5 70.5 66.3 68.2 70.5 72.0 72.3 73.3 73.6 73.0 74.4 74.6 74.6 74.6 68.9 70.9 71.5 73.9 75.5 75.7 76.9 77.2 77.2 77.4 77.4 77.4 77.7 69.5 71.5 73.9 75.5 75.7 76.9 77.2 77.2 77.2 77.4 77.4 77.5 69.5 71.5 73.9 75.5 75.7 76.9 77.2 77.2 77.9 78.2 78.2 78.5 70.5 70.5 70.5 70.5 70.5 70.5 70.5 70	46.3 47.8 49.7 50.8 51.1 52.0 52.3 52.3 53.1 53.3 53.3 53.6 53.6 58.3 59.9 62.0 63.5 63.7 64.7 65.0 65.0 65.7 66.0 66.0 66.3 66.3 58.7 60.3 62.4 63.9 64.1 65.1 65.4 65.4 65.4 66.1 66.4 66.4 66.7 66.7 59.6 61.3 63.4 64.8 65.1 66.1 66.4 66.4 66.4 66.7 67.7 67.7 62.5 64.4 66.5 68.0 68.2 69.2 69.5 69.5 70.2 70.5 70.5 70.8 70.8 65.9 67.8 70.1 71.9 72.9 73.2 73.2 73.2 74.0 74.2 74.2 74.2 74.5 74.5 66.3 68.2 70.5 72.0 72.3 73.3 73.0 73.4 74.0 74.2 74.2 74.5 74.5 66.3 68.2 70.5 72.0 72.3 73.3 73.0 73.4 74.4 74.6 74.9 74.9 74.9 74.9 74.9 74.9 74.9 74.9	46. 2 47. 8 49. 7 50. 8 51. 1 52. 0 52. 3 52. 2 53. 1 53. 3 53. 3 53. 0 53. 6 53. 7 58. 3 59. 9 62. 0 63. 5 63. 7 64. 7 65. 0 65. 0 65. 7 66. 0 66. 0 66. 3 66. 3 66. 4 68. 0 60. 2 62. 3 63. 7 64. 0 64. 9 65. 2 65. 2 65. 0 66. 0 66. 2 66. 5 66. 5 66. 5 66. 5 8. 7 60. 3 62. 4 63. 9 64. 1 65. 1 65. 4 65. 4 66. 1 66. 4 66. 4 66. 7 66. 8 65. 6 66. 5 68. 0 68. 2 69. 2 69. 2 69. 5 69. 5 70. 2 70. 5 70. 5 70. 5 70. 6 70. 7 67. 7 6

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET

# **CEILING VERSUS VISIBILITY**

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CHASE FIELD, TEXAS

73-77

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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CEILING		•					VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		70.0	70.7	70.7	72.7	72.7	82.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.
≥ 18000 ≥ 16000		77.3	78.0	78.0	80.0	80.0		82.7	82.7	82.7	82.7	82.7	82,7	82.7	82.7	82.
≥ 14000 ≥ 12000		78.7	79.3	79.3	81.3	81.3	83.3	84.0	84.0	88.0	84.0	84.0	86.0	84.0	84.0	84.
≥ 10000 ≥ 9000		84.0	84.7	85.3	87.3	87.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0		90.0	90.
≥ 8000 ≥ 7000		84.7	85.3	86.0	88.0	88.0	90.0	90.7	90.7	90.7	90.7	90.7		90.7	90.7	90.
≥ 6000 ≥ 5000		86.0	86.7	87.3	89.3	89.3	91,3	92.0	92.0		92.0	92.0			92.0	92.
≥ 4500 ≥ 4000		86.0	86.7	87.3	89.3	89.3	91.3	92.0	92.0	92.0	92.0	92.0			92.0	92.
≥ 3500 ≥ 3000		86.7	87.3	88.0	90.0	90.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.
≥ 2500 ≥ 2000		90.0	90.0		92,7	92.7	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.
≥ 1800 ≥ 1500		90.0	92.0	92.7	94.7	94.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.
≥ 1200 ≥ 1000		90.0		92.7	94.7	94.7	96,7	97.3	97.3	97,3	97.3	97.3	97.3	97.3	97.3	97.
≥ 900 ≥ 800		90.0	92.0		94,7	94.7	96,7	97.3	97.3	97.3	97.3	97.3	97,3	97.3	97.3	97.
≥ 700 ≥ 600		90.7	92.7	93.3	95.3	95.3	97.3	98.7	98.7	98,7	98.7	98.7	98.7	98.7	98.7	98
≥ 500 ≥ 400		90.7	92.7	93.3	95.3	95.3	97.3	98.7	98.7	98,7	98.7	98.7	98.7	98.7	98.7	98
≥ 300 ≥ 200		90.7	92.7	93.3	95.3	95.3	97.3	98.7	98.7	98,7	99.3	99.3	99,3	99.3	99.3	100
≥ 100 ≥ 0		90.7	92.7	93.3	95.3	95.3	97,3	98.7	98.7	98.7	99.3	99.3	99.3	99.3	100.0	

TOTAL NUMBER OF OBSERVATIONS

150

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# **CEILING VERSUS VISIBILITY**

				PERCEN (I			STA OF								HOURS (	
CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		64.7	68.7	70.7	71.3	71.3	74.0	74.0	74.0	76.0	76.0	76.0	76.7	76.7	76.7	76.7
≥ 18000 ≥ 16000		68.7	72.7	74.7	75.3	75.3	78.0	78.0	78.0	80.7	80.7	80.7	81.3	81.3	81.3	81.3
≥ 14000 ≥ 12000		68.7	72.7	74.7	75.3	75.3	78.0	78.0	78.0	80.7	80.7	80.7	81.3	81.3	81.3	81.3
≥ 10000 ≥ 9000		70.7	74.7	76.7	77.3	77.3	80.7	81.3	81.3	84.0	84.0	84.0	84.7	84.7	84.7	84.7
≥ 8000 ≥ 7000		70.7	74.7	76.7	77.3	77.3	80.7	81.3	81.3	84.7	84.0	84.7	84.7	84.7	84.7	84.7
≥ 4000 ≥ 5000		71.3	75.3	77.3	78.0	78.0	81.3	82.0	82.7	84.7	84.7	84.7	85.3	85.3	85.3 86.0	85.3
≥ 4500 ≥ 4000		71.3	75.3	78.0	79.3	79.3	82.7	83.3	83.3	86.0	86,0	86.0	86.7	86.7	88.0	86.7
≥ 3500 ≥ 3000		72.7	76.7	79.3	80.7	80.7	84.0	84.7	84.7	90.0	87.3	87.3	90.7	90.7	88.0	88.0
≥ 2500 ≥ 2000		76.0	80.7	83.3	84.7	84.7	88.0	88.7	88.7	91.3	91.3	91.3	92.0	92.0	92.0	92.0
≥ 1800 ≥ 1500		77.3	84.0	85.3	86.7	86.7	90.0	90.7	90.7	93.3	93.3	93.3	94.0	A	94.0	94.0
≥ 1200 ≥ 1000		78.7	84.0	86.7	88.0	88.0	91.3	92.0	92.0	95.3	95.3	95.3	96.0	96.0	96.0	96.0
≥ 900 ≥ 800		78.7	84.0	86.7	88.0	88.0	91.3	92.0	92.0	96,0	96.0	96.0	96.7	97.3	97.3	97.3
≥ 700 ≥ 600		78.7	84.0	86.7	88.7	88.0	91.3	92.0	92.0	96.0	96.0	96.0	96.7	97.3	97.3	97.3
≥ 500 ≥ 400		79.3	84.7	88.0	89.3	89.3	92.7	93.3	93.3	97.3	97.3	97.3	98.0	98.7	98.7	98.7
≥ 300 ≥ 200		79.3	84.7	88.0	89.3	89.3	92.7	93.3	93.3	97,3	98.0	98.0	98,7	99.3	100.0	100.0
≥ 100 ≥ 0		79.3	84.7	88.0	89.3	89.3	92.7	93.3	93.3	97.3	98.0	98.0	98.7		100.0	100.0

# **CEILING VERSUS VISIBILITY**

12925 CHA

CHASE FIELD, TEXAS

73-77

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/4	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		35.3	43.3	48.0	50.0	50.7	54.7	55.3	55.3	35.3	55.3	55.3	50.0	56.0	57.3	58.
≥ 20000		40.0	48.7	54.7	58.0	58.7	62.7	63.3	63.3	63.3	63.3	63.3	64.0	64.0	65.3	66.
≥ 18000		40.0	48.7	54.7	58.0	58.7	62.7	63.3	63.3	63,3	63.3	63.3	64.0	64.0	65.3	66.
≥ 16000		40.0	48.7	54.7	58.0	58.7	62.7	63.3	63.3	03.3	63.3	63.3	64.0	64.0	65.3	66.
≥ 14000		40.0	48.7	55.3	58.7	59.3	64.0	64.7	64.7	64,7	64.7	64.7	65.3	65.3	66.7	68.
≥ 12000		42.0	50.7	57.3	60.7	61.3	66.0	67.3	67.3	67.3	67.3	67.3	68.0	68.0	69.3	70.
≥ 10000		44.7	53.3	60.7	64.0	64.7	69.3	70,7	70.7	70,7	70.7	70.7	71.3	71.3	72.7	74.
≥ 9000		44.7	53.3	60.7	64.0	64.7	69.3	70.7	70.7	70.7	70.7	70.7	71.3	71.3	72.7	74.
≥ 8000		46.7	55.3	62.7	66,0	66.7	71.3	72.7	72.7	72.7	72.7	72.7	73,3	73.3	74.7	76.
≥ 7000		47.3	56.0	63.3	66.7	67.3	72.0	73.3	73.3	73.3	73.3	73,3	74.0	74.0	75.3	76.
≥ 6000		47.3	56.0	63.3	66.7	67.3	72.0	73.3	73.3	73,3	73.3	73.3	74.0	74.0	75.3	76.
≥ 5000		48.0	56.7	64.0	67.3	68.0	72.7	74.0	74.0	140	74,0	74.0	74.7	74.7	76.0	77.
≥ 4500		48.0	56.7	64.0	67.3	65.0	72.7	74.0	74.0	74.0	74.0	74.0	74.7	74.7	76.0	77.
≥ 4000		48.0	56.7	64.0	67.3	68.0	72.7	74.0	74.0	74.0	74.0	74.0	74.7	74.7	76.0	
≥ 3500		48.7	57.3	64.7	68.0	68.7	73.3	74.7	74.7	74.7	74,7	74.7	75.3	75.3	76.7	78.
≥ 3000	•	50.7	59.3	66.7	70.0	70.7	75.3	76.7	76.7	76,7	76.7	76.7	77,3	77.3	78,7	80.
≥ 2500		52.0	61.3	68.7	72.0	72.7	77.3	78.7	78.7	78,7	78.7	78.7	79.3	79.3	80.7	82.
≥ 2000		52.7	62.7	70.0	73.3	74.0	78.7	80.0	80.0	80.0	80,0	80.0	81.3	81.3	82.7	84.
≥ 1800		52.7	62.7	70.0	73,3	74.0	78.7	80.0	80.0	80.0	80.0	80.0	81.3	81.3	82.7	84.
≥ 1500		55.3	66.0	74.0	78.0	78.7	83.3	84.7	84.7	8417	84,7	84.7	86.0	86.0	87.3	88.
≥ 1200		56.7	67.3	75.3	79.3	80.0	84.7	86.0	86.0	90.0	86.0	86.0	87.3	87.3	88.7	-
≥ 1000		57.3	68.0	76.0	80.0	80.7	85.3	86.7	86.7	87,3	87.3	87.3	88,7	88.7	90.7	92.
≥ 900		57.3	68.0	76.0	80.0	80.7	85.3	86.7	86.7	87.3	87,3	87.3	88,7	88.7	90.7	92.
≥ 800		58.7	69.3	77.3	81.3	82.0	86.7	88.0	88.0	88,7	88.7	88.7	90.7	90.7	92.7	94.
≥ 700		58.7	69.3	77.3	81.3	82.0	86.7	88.0	88.0	88,7	88,7	88.7	90.7	90.7	92.7	94.
≥ 600		59.3	71.3	79.3	83,3	84.0	88.7	90.0	90.0	90.7	90.7	90.7	92.7	92.7	94.7	96.
≥ 500		60.7	72.7	80.7	84.7	85,3	90.0	91.3	91.3	92.0	92.0	92.0	94.0	94.0	96.0	100 miles
≥ 400		60.7	73.3	81.3	85,3	86.0	90.7	92.0	92.0	93,3	93,3	93.3	95,3	95.3	98.0	
≥ 300		60.7	73.3	81.3	85,3	86.0	90.7	92.0	92.0	93,3	93.3	93.3	95,3	95.3	98.0	
≥ 200		60.7	73.3	81.3	85,3	86.0	90.7	92.0	92.0	93,3	93.3	93,3	95,3	95.3	98.7	100.
≥ 100		60.7	73.3	81.3	85,3	86.0	90.7	92.0	92.0	93,3	93.3	93.3	95,3		98.7	100.
≥ 0		60.7	73.3	813	85.3	86.0	90.7	92.0	92.0	93.3	93.3	93.3	95.3	95.3	98.7	100.

TOTAL NUMBER OF OBSERVATIONS

150

0

0

5703 CEILING VERSUS VISIBILITY JAN 78

# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

SEP MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

09

5703 CEILING VERSUS VISIBILITY JAN

CEILING							VISI	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/3	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		42.7	42.7	44.7	46.0	46.0	46.0	46.0	50.0	50.0	46.7	50.0	50.0	46.7	50.0	50.0
≥ 18000 ≥ 16000		46.0		48.0	49.3	49.3	49.3	49.3	50.0	70 -	50.0	50.0		50.0	50.0	50.0
≥ 14000 ≥ 12000		47.3 50.0		52.0	52.0	52.0	52.0	52.0	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.
≥ 10000 ≥ 9000		54.7	54.7	56.7	59.3	59.3	59.3	59.3	60.0	60.0	60.0	60.0		60.0	60.0	
≥ 8000 ≥ 7000		58.0 58.0	58.7	60.7	63.3	63.3	63.3	63.3	64.7	64.7	64.7	64.7	64.7	64.0	64.7	64.
≥ 6000 ≥ 5000		58.0	58.7	60.7	63.3	63.3	63.3	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.
≥ 4500 ≥ 4000		58.0	58.7	62.0	64.7	63.3	64.7	65.3	64.7	66.0	64.7	66.0	64.7	64.7	64.7	64.
≥ 3500 ≥ 3000		60.0	60.7	62.7	65.3	65.3	65.3	66.7	66.7	67.3	67.3	67.3	67.3	66.7	66.7	67.
≥ 2500 ≥ 2000		64.7	62.7	64.7	70.0	70.0	70.0	70.7	71.3	71,3	71.3	71.3	71.3	68.7	68.7	71.
≥ 1800 ≥ 1500		64.7	73.3	67.3	70.0	70.0	70.0	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.
≥ 1200 ≥ 1000		76.0 82.0		78.7	82.0	82.0	82.7	83,3	90.0	90.0	90.0	90.0	90.0	90.0		
≥ 900 ≥ 800		82.7	83.3	85.3	91.3	88.7	92.0	90.0	90.7	90,7	90.7	90.7	90.7	90.7	90.7	90.1
≥ 700 ≥ 600		86.0	87.3	90.0	92.7	92.7	93,3	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 500 ≥ 400		87.3 87.3	88.7	90.7	95.3	95.3	96.7	97.3	98.0	9810	98,0	98.0	98.0	98.0	98.0	98.
≥ 300 ≥ 200		87.3	88.7	90.7	95.3	95.3	98.0	98.7	99.3	99,3	99.3			100.0 100.0		
≥ 100 ≥ 0		87.3	88.7	90.7	95.3	95.3	98,0	98.7	99.3	99,3	99.3			100.0		

TOTAL NUMBER OF OBSERVATIONS

150

# **CEILING VERSUS VISIBILITY**

12925

1

CHASE FIELD, TEXAS

73-77

VEAGE

SEP

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12

1

0

0

5703 CEILING VERSUS VISIBILITY JAN 78

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		32.7	32.7	32.7	33,3	33.3	33.3	33.3	33.3	33.3	33,3	33.3	33,3	33.3	33.3	
≥ 20000		37.3	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38,7	38,7	38.7	38,7	38.7	38.7	38.
≥ 18000 ≥ 16000		37.3	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38,7	38.7	38.7	38.7	38.7	38.
		37.3	37.3	39.3	38.7	38.7	38.7	40.0	38.7	40.0	38.7	40.0	40.0	38.7	38.7	38.
≥ 14000 ≥ 12000		2 2 7 6	41 2		40.0	40.0	40.0	40.0	42.7	42.7	40.0	40.0	42 7	42.7	40.0	40.
		41.3	43.3	42.0	42.7		42.7	44.0	44 0	44-0	44.0	44.0	44.0	44.0		42.
≥ 10000 ≥ 9000		42.7	42.7	43.3	44,0	44.0	14.0	44.7	77.0	44.0	44.7	44.7	44.7	44.7	44.0	77.
		43.3	43.3	44.0	44.7	44.7	45 7	45 2	45.3	45.2	45 3	45.2	45.3	45.2	45.2	44.
≥ 8000 > 7000		44.g	44.0	44.7	45.3	45.3	45.3	46.0		46.0	46.0	46.0	46.0	46.0	45.3	45.
≥ 7000		44.7	44.7	77.0	46.0	46.0	46.0	40.0	46.0	1	45.0	46.0	46.0		40.0	40.0
≥ 6000		44.7		45.3	46.0	40.0	46.0				46.0	46.0		46.0	46.0	46.
≥ 5000		44.7	44.7	45.3	46.0		46.0	40.0	46.0	7 -				40.0	40.0	40.
≥ 4500		44.7	44.7	45.3	46.0	47.3	46.0	40.0	46.0	40,0	40.0	46.0	40.0	40.0	40.0	46.
≥ 4000		40.0	46.0	46.7	47.3		47.3	49.0	47.2	48.0	48.0	41,5	48 0	49 0	47.3	410
≥ 3500 > 3000		46.7	46.7	47.3	48.0		48.0	48.0	70.0	40,0	1.00	48.0	40.0	48.0	48.0	48.
≥ 3000		53.3	53.3	54.0	54,7	54.7	54,7	54.7	55 3	65.2	54,7	34.7	A5 3	54.7	55.7	54.
≥ 2500 > 2000		64.0	64.0	64.7	65.3	65.3	05.3	05.3	05.3	85.3	05.5	05.5	05.3	85.3	65.3	65.
≥ 2000		80.7	81.3	83.3	84.7	85.3	05.3	85.3	90.0	30.0	99.0	00.0	03.3	22	85.3	85.
≥ 1800		82.0	84.d	86.0	87,3	88.0	88.0	88.0	00.0	92.7	92.7	92.7	88.0	92.7	88.0	4
≥ 1500		86.0	88.7	90.7	92.0		92.7	92.7	92.7	95.3	95.3	7201	76,1		92.7	92.
≥ 1200		88.7	91.3	93.3	94.7	95.3	95,3	95.3	95.3	67.3	97.3	77.5	97.3	95.3	95.3	
≥ 1000		90.0	93.3	95.3	96.7	97.3	97.3	97.3	71.3	97.3	97.3	07 9	97 3	07 3		
≥ 900 > 800		90.0	93.3	95.3	96,7	97.3	97.3	97.3	77.3	7113	98.7	71.5	71,3	91.3	97.3	97.
≥ 800		91.3	94.7	96.7	98.0		98.7	90.7	98.7	99.2		70.7	90.7	99.2	98.7	70.
≥ 700		91.3	95.3	97.3	98.7	99.3	99.3	99.3	99.3		99.3	77.3	100.0		99.3	
≥ 600		92.0	96.0	and the second second			100.0				100,0	-			100.0	
≥ 500		92.0	96.0		99,3		100.0				100,0			100.0		100.
≥ 400		92.0	96.0	98.0		100.0										
≥ 300		92.0	96.0	98.0		100.0	Marian St. St. St.									100.
≥ 200		92.0	96.0			100.0										
≥ 100		92.0	March and Advisor		Marchael Co.	100.0		and the case of the case of		Dr. market		-		and the same of th		CONTRACTOR OF THE PARTY OF THE
≥ 0		92.0	96.0	98.0	99.3	100.0	100.0	100.0	100.0	10010	100.0	100 • 0	100.0	100.0	100.0	100.

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SI

# **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

SE:

15

0

5703 CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		38.7	38.7	38.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 20000		45.3	45.3	45.3	46.7	46.7	46.7	46.7	46.7	46.7	46,7	46.7	46.7	46.7	46.7	46.7
≥ 18000 ≥ 16000		45.3	45.3	45.3	46.7	47.3	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	47.3
≥ 14000 ≥ 12000		48.0	48.0	48.0	49.3	50.0	49.3	49.3	49.3	50.0	49.3	49.3	49.3	50.0	49.3	49.3
≥ 10000		51.3	51.3	51.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.
≥ 9000		51.3	51.3	51.3	53.3	53.3	53.3	53.3	53.3	53,3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 8000 ≥ 7000		52.0	52.0	52.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
		54.0	54.0	54.0	56.0		56,0	56.0	56.0	20.0	56,0	56.0	56,0	56.0	56.0	56.0
≥ 6000 ≥ 5000		54.7	55.3	54.7	56,7	56.7	56.7	57.3	56.7	56,7	56.7	57.3	57.3	56.7	56.7	56.7
≥ 4500		56.0	56.0	56.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 4000		57.3	57.3	57.3	59.3	59.3	59.3	59.3	59.3	59,3	59.3	59.3	59,3	59.3	59.3	59.3
≥ 3500		61.3	61.3	61.3	63.3	63.3	63.3	63.3	63.3	63,3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 3000		71.3	71.3	71.3	73.3	73.3	73.3	73.3	73.3	13.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 2500 ≥ 2000		65.3	86.Q	86.0	88.0	-	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
		92.0	92.7	92.7	94,7	94.7	94.7	94,7	94,7	94.7	94.7	94.7	94,7	94.7	94.7	94.7
≥ 1800		92.7	93.3	93.9	95.3	95.3	95.3	95.3	95.3	95.3	95,3	95.3	95.3	95.3	95.3	95.3
≥ 1500		94.7	95.3	95.3	97.3	97.3	97.3	97.3	97.3	97,3	97.3	97.3	97,3	97.3	97.3	97.3
≥ 1200 ≥ 1000		95.3	96.7	97.3	99,3	99.3	99.3	99.3	99.3	99.3	99,3	99.3	99.3	99.3	99.3	99.3
		96.0	97,3	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0
≥ 900 ≥ 800		96.0	97.3	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0
		96.0	97.3	98.0	100.0									100.0	100.0	100.0
≥ 700		96.0	97.3	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700 ≥ 600		96.0	97.3	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		96.0	97.3	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		96.0	97.3	98.0	100.0									100.0	100.0	100.0
≥ 300		96.0	97.3	98.0	100.0						100.0		100.0	100.0		100.0
≥ 200		96.0	97.3	98.0	100.0	4						A COLUMN TO THE REAL PROPERTY OF THE PARTY O	100.0	100.0	100.0	100.0
		96.0	97.3	98.0										100.0		100.0
≥ 100 ≥ 0		96.0	97.3			100.0										

TOTAL NUMBER OF OBSERVATIONS 150

#### **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

73-77

0

5703 CEILING VERSUS VISIBILITY JAN 78

0

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		57.3	58.0	58.0	58.7	60.0	60.0	60.0	60.0	75.3	60.0	60.0	60.0		60.0	60.0
		72.7	73.3	74.0	74.7		75.3	75.3	75.3	76.0	75.3	75.3	75.3	75.3	75.3	75.3
≥ 18000 ≥ 16000		73.3	74.0	74.0	74.7	76.0	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.
≥ 14000		75.3	76.0	76.0	76.7	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.
≥ 12000		78.7	79.3	79.3	80.0		82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.
≥ 10000		84.0	84.7	84.7	85.3	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.
≥ 9000		84.0	84.7	84.7	85.3	85.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.
≥ 8000		85.3	86.0	86.0	86,7	88.0	88.7	88.7	88.7	88,7	88.7	88.7	88.7	88.7	88.7	88.
≥ 7000		86.0	86.7	86.7	87.3	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.
≥ 6000		86.7	87.3	87.3	88.0		90.0	90.0	90.0	90.0	90.0	90.0		100	90.0	90.
≥ 5000		88.0	88.7	88.7	89.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.
≥ 4500 ≥ 4000		88.0	88.7	88.7	89.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.
-		88.0	88.7	88.7	89.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.
≥ 3500 ≥ 3000		88.7	89.3	89.3	90.0	20 10 45 117	92.0	92.0	92.0	92.0		92.0	92.0	92.0	92.0	92.
≥ 2500		90.7	91.3	91.3	92.0		94.0	94.0	94.0	94.0		94.0			94.0	
≥ 2000		92.7	93.3	93.3	94.0	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.
≥ 1800		93.3	94.0	94.0	94,7	96.0	96.7	96.7	96.7	96,7	96.7	96.7	96.7	96.7	96.7	96.
≥ 1500		93.3	94.0	94.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.
≥ 1200		94.0	94.7	94.7	95.3	96.7	98.0	98.0	98.0	98,0		98.0		98.0	98.0	98.
≥ 1000		95.3	96.0	96.0	96.7	98.0	99.3	99.3	99.3	99,3	99.3	99.3	99.3	99.3	99.3	99.
≥ 900 ≥ 800		95.3	96.0	96.0	96.7	98.7	99.3	99.3	99.3	99,3	99,3	99.3	99.3	400	99.3	99.
		95.3	96.0	96.0	97.3										100.0	
≥ 700 ≥ 600		95.3	96.0	96.0	97.3										100.0	
		95.3	96.0	96.0	97.3										100.0	
≥ 500 ≥ 400		95.3	96.0	96.0	97.3										100.0	
≥ 300		95.3	96.0	96.0	97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
≥ 200		95.3	96.0	96.0	97.3	98.7	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.
≥ 100		95.3	96.0	96.0	97.3	98.7	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.
≥ 100 ≥ 0		95.3	96.0	96.0	97.3	98.7	100.0	100.0	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

ARS

SEP

80

0

5703 CEILING VERSUS VISIBILITY JAN 78

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MILI	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		72.0	72.7	72.7	74.0	74.7	74.7	74.7	74.7	74.7	74.7	82.7	74.7	74.7	74.7	74.7
≥ 18000 ≥ 16000		80.0	80.7	80.7	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 14000 ≥ 12000		80.0	84.0	80.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 10000 ≥ 9000		84.0	84.7	84.7	86.7	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 8000 ≥ 7000		86.0	86.7	86.7	88.7	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 6000 ≥ 5000		86.0	86.7	86.7	88.7	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 4500 ≥ 4000		86.7	86.7	86.7	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.7	90.0	90.0	90.0
≥ 3500 ≥ 3000		87.3 88.0	88.7	88.0	90.0	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2500 ≥ 2000		88.7 92.0	92.7	89.3	91.3	92.0	92.7	92.7	92.7	96.0	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1800 ≥ 1500		92.0	92.7	92.7	94.7	95.3	96.0	96.0	96.0	96,0	96.0	96.7	96.0	96.0	96.0	96.0
≥ 1200 ≥ 1000		93.3	94.0	94.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 900 ≥ 800		94.0	94.7	94.7	96.7	97.3	98.0	98.0	98.0	98,0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700 ≥ 600		94.0	95.3	95.3	97.3	98.0	98.7	98.7	98.7	98,7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500 ≥ 400		94.7	96.0	96.0	98.0	98.7	99.3	99.3	99.3	99,3	99,3	99.3	99.3	99.3	99.3	99.3
≥ 300 ≥ 200		95.3	96.7	96.7	98.7	99.3			100.0	100.0	00.0	00.0		100.0		100.0
≥ 100 ≥ 0		95.3	96.7	96.7	98.7					100,0						100.0

TOTAL NUMBER OF OBSERVATIONS 150

### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

NON.

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/3	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		51.7	53.4	54.5	55.8	56.1	57.2	57.3	57.4	57.7	57,7	57.7	57.8	57.8	58.0	58.1
≥ 18000 ≥ 16000		58.5	60.5	61.8	63.1	63.4	64.5	64.7	64.8	65.1	65.1	65.1	65.5	65.3	65.4	65.6
≥ 14000 ≥ 12000		59.6	61.4	62.8	64.5	64.8	66.1	66.3	66.3	66.7	69.3	69.3	66,8	66.8	67.0	67,2
≥ 10000 ≥ 9000		64.5	66.5	67.9	69.7	70.0	71.6	71.8	71.8	72.2	72.2	72.2	72.3	72.3	72.5	72.7
≥ 8000 ≥ 7000		65.9	67.8	70.2	71.2		72.9	73.3	73.3	73.7	73.7	73.7	73.8	73.8	74.0	74.2
≥ 6000 ≥ 5000		66.8 67.2	68.8	70.3	72.1	72.4	73.8	74.3	74.3	74.7	74.7	74.7	74.8	74.8	75.0	75.2
≥ 4500 ≥ 4000		67.3	69.2	70.8	72.7	73.0	74.4	74.8	74.9	75.3	75.3	75.3	75.4	75.4	75.6	75.8
≥ 3500 ≥ 3000		72.0	70.8	72.5	74.3	74.7 77.8	76.1	76.5	76.6	76.9	76.9	76.9	80.2	77.1	77.3	77.4
≥ 2500 ≥ 2000		75.9	78.2	79.8	81.7	87.0	83.4	83.8	83.9	84,3	84,3	84.3	84.4	84.4	84.6	84.8
≥ 1800 ≥ 1500		80.6	83.3	85.2	87.1	87.5	88.9	89.3	92.3	92,6	92.6	92.6	90.0	90.0	90.2	90.3
≥ 1200 ≥ 1000		85.4	87.1	90.5	91.2	91.6	93.2	93.6	93.7	94.1	94.1	94.1	95.9	94.3	94.5	94.7
≥ 900 ≥ 800		85.5	88.6	90.6	92.7	93.1	94.7	95.1	95.2	95.8	95.8	95.8	96.0	96.1	96.3	96.5
≥ 700 ≥ 600		86.3	90.1	91.7	93.8	94.8	95.8	96.3	96.4	97.0	97,0	97.0	97.3	97.4	97.7	97.8
≥ 500 ≥ 400		87.0 87.0	90.5	92.6	94.9	95.3	97.0	97.5	97.6	98,2	98.2	98.2	98.5	98.6	98.8	99.0
≥ 300 ≥ 200		87.1 87.1	90.7	92.8	95.1	95.5	97.3	97.8	97.9	98,6	98,8	98.8	99.2	99.3	99.7	99.8
≥ 100 ≥ 0		87.1	90.7	92.8	95.1	95,5 95,5	97.3	97.8	97.9	98,6	98,8	98.8	99.2		99.8	100.0

TOTAL NUMBER OF OBSERVATIONS

1200

0

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

UCT

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

00 HOURS (L S T )

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		71.0	71.6	72.3	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9	73.6	73.6	73.6	73.6
≥ 18000 ≥ 16000		71.0	74.2	74.8	74.8	74.8	74.8	75.5	75.5	75.5	75,5	75.5	76.1	76.1 76.1	76.1	76.1
≥ 14000 ≥ 12000		71.6	74.8	75.5	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.8	76.8	76.8	76.8
≥ 10000 ≥ 9000		72.9	76.1	76.8	76.8	76.8	76.8	77.4	77.4	77.4	77.4	77.4	78.1	78.1 78.1	78.1	78.1
≥ 8000 ≥ 7000		76.1	79.4	80.7	80.7	80.7	80,7	81.3	81.3	61.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 6000 ≥ 5000		76.8	80.0	81.3	81.3	81.3	81.3	81.9	81.9	81.9	81.9	81.9	82.6	82.6	82.6	82.6
≥ 4500 ≥ 4000		78.7	81.9	83.2	83.2	83.2	83.2	83.9	83.9	83.9	83.9	83.9	84.5	84.5	84.5	84.5
≥ 3500 ≥ 3000		80.0	83.2	84.5	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.8	85.8	85.8	85.6
≥ 2500 ≥ 2000		83.2	86.5	87.7	87.7	87.7	87.7	88.4	88.4	90.3	88.4	90.3	91.0	89.0	91.0	91.0
≥ 1800 ≥ 1500		85.2	89.0	90.3	90.3	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.6	91.6	91.6	91.6
≥ 1200 ≥ 1000		85.8	89.7	91.6	91.0	91.0	91.0	91.6	91.6	91.6	91.6	91.6	92.3	92.3	92.3	92.3
≥ 900 ≥ 800		87.7	91.6	93.6	93.6	93.6	93.6	94.2	94.2	94.2	94,2	94.2	94.8	94.8	94.8	94.8
≥ 700 ≥ 600		89.0	92.9	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1	96.1
≥ 500 ≥ 400		90.3	94.2	96.1	96.1	96.1	96.8	97.4	97.4	97.4	97,4	97.4	98.1	98.1	98.1	98.1
≥ 300 ≥ 200		90.3	94.2	96.1	96.1	96.1	96.8	97.4	97.4	97.4	97.4	97.4	98.1	98.7	98.7	98.7
≥ 100 ≥ 0		90.3	94.2	96.1	96.1	96.1	96.8	97.4	97.4	97.4	97.4	97.4	98.1	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

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0

5703 CEILING VERSUS VISIBILITY JAN 78

#### **CEILING VERSUS VISIBILITY**

12925 CHASE FIELD, TEXAS

73-77

5703 CEILING VERSUS VISIBILITY

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		53.6	61.3	65.8	66.5	66.5	67.7	68.4	68.4	69.0	69.0	69.0	69.0	69.0	69.0	71.0
≥ 20000		54.8	63.2	67.7	68.4	68,4	69.7	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	72.9
≥ 18000		54.8	63.2	67.7	68.4	68.4	69.7	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	72.9
≥ 16000		54.8	63.2	67.7	68.4	68.4	69.7	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	72.9
≥ 14000		54.8	63-2	67.7	68.4	68.4	69.7	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	72.9
≥ 12000		54.8	67.5	68.4	69,0	69.0	70.3	71.0	71.0	71.6	71,6	71.6	71.6	71.6	71.6	73.6
≥ 10000		56.8	55.2	70.3	71.0	71.0	72.3	72.9	72.9	73.6	73,6	73.6	73.6	73.6	73.6	75.5
≥ 9000		56.8	65.2	70.3	71.0	71.0	72,3	72.9	72.9	73.6	73,6	73.6	73.6	73.6	73.6	75.5
≥ 8000		58.7	67.1	72.3	72.9	72.9	74.2	74.8	74.8	7515	75.5	75.5	75.5	75.5	75.5	77.4
≥ 7000		58.7	67.1	72.3	72.9	72.9	74.2	74.8	74.5	73.5	76,1	76.1	76,1	76.1	76.1	78.1
≥ 6000		59.4	67.7	72.9	73.6	73.6	74.8	75.5	75.5	70.1	76.8	76.8	76.8	76.8	76.8	78.7
≥ 5000		60.0	69.0	74.2	74.8	74.8	76,1	76.8	76.8	77,4	78.1	78 . 1	78,1	78.1	78.1	80.0
≥ 4500		61.3	70.3	75.5	76.1	76.1	77.4	78.1	78.1	70.7	79.4	79.4	77.4	79.4	79.4	81.3
≥ 4000		63.2	72.9	78.1	78,7	78.7	80.0	80.7	80.7	6143	81.9	81.9	91.9	81.9	81.9	83.9
≥ 3500		63.9	73.6	78.7	79.4	79.4	80.7	81.3	81.3	91.9	82.6	82.0	82.6	82.6	82.6	84.5
≥ 3000		65.2	74.8	80.0	80,7	80.7	81.9	82.6	82.0	03,2	83.9	83,9	83,9	83.9	83.9	85.8
≥ 2500		65.2	74.8	80.0	80,7	80.7	81.9	82.6	82.0	83.2	83,9	83.9	83.9	83.9	83.9	85.8
≥ 2000		68.4	78.1	83.2	83,9	83.9	85.2	85.8	85,8	8015	87,1	67.1	87.1	87.1	87.1	89.0
≥ 1800		68.4	78.1	83.2	83.9	83,9	85.2	85.8	85.8	8012	87.1	87.1	87.1	87.1	87.1	89.0
≥ 1500		69.7	80.0	85.2	85.0	85,8	87.1	87.7	87.7	85,4	89,0	87.0	84.0	89.0	89.0	91.0
≥ 1200		70.3	80.7	85.8	87.1	87.1	88.4	89.0	89.0	89,7	90.3	40.3	90.3	90.3	90.3	92.3
≥ 1000		71.0	81.3	86.5	87.7	87.7	89.0	89.7	89,7	90,3	91,0	91.0	71.0	91.0	91.0	92.9
≥ 900		71.0	81.3	86.5	87,7	87.7	89.0	89.7	89.7	90,3	91,0	31.0	41.0	91.0	91.0	92.9
≥ 800		71.6	81.9	87.1	88.4	88.4	89.7	90.3	90.3	A1.0	91,0	91.0	91.6	91.6	91.6	93.6
≥ 700		73.6	83.9	89.0	90,3	90.3	91,6	92.3	92.3	45.4	93,0	93.0	93,6	93.6	93.0	95.5
≥ 600		73.6	83.9	89.0	91.0	91.0	92.3	92.9	92.9	73.0	94.2	74.Z	94.2	94.2	94.2	90.1
≥ 500		74.2	84.5	89.7	92.3	92.3	93.6	94.2	94,2	4418	96.1	96.1	96,1	96.1	96.1	98.1
≥ 400		74.2	84.5	89.7	92.3	92.3	94.2	94.8	94.8	4262	96.8	70.0	90.8	76.8	96.8	98.7
≥ 300		74.2	84.5	90.3	92,9	92.9	94.8	95.5	95,5	90,1	97,4	97,4	77.4	97.4	97.4	99.4
≥ 200		74.2	84.5	90.3	92.9	92.9	94.8	95.5	95,5	301	97,4	77,4	77,4	77.4		100.0
≥ 100		74.2	84,5	90.3	92,9	92.9	94.8	95.5	95.5	40.1	97,4	97.4	97.4	77.4		100.0
≥ 0		74.2	84.5	90.3	92.9	92.9	94.8	95.5	95.5	4011	97.4	77.4	97.4	97.4	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

UCT

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		40.7	43.2	49.0	52,3	53.6	55.5	56.8	56.8	59,4	61,3	61.3	62.6	63.2	63.9	63.5
≥ 20000		43.2	45.8	51.6	54,8	56.1	58.1	59.4	59.4	61,9	64,5	64.5	65,8	66.5	67.1	67.
≥ 18000 ≥ 16000		43.2	45.8	51.6	54.8	56.1	58.1	59.4	59.4	61,9	64.5	64.5	65.8	66.5	67.1	67.
≥ 14000 ≥ 12000		43.2	45.8	51.6	54.8	56.1	58.1	59.4	59.4	61,9	64.5	65.2	65.8	67.1	67.1	67.
≥ 10000 ≥ 9000		46.5	49.0	54.8	58.1	59.4	61.3	62.6	62.6	65.2	67.7	67.7	69.0	69.7	70.3	70.
≥ 8000 ≥ 7000		47.7	50.3	56.8	60.7	61.9	63.9	65.2	65.2	67.7	70.3	70.3	71.6	72.3	72.9	72.5
≥ 6000 ≥ 5000		47.7	50.3	56.8	60.7	61.9	63.9	65.2	65.2	67.7	71.0	71.0	72.3	72.9	73.6	73.6
≥ 4500 ≥ 4000		49.0	51.6	58.1	61,9	63.2	65.2	66.5	66.5	71.0	72.3	72.3	73.6	74.2	74.8	74.
≥ 3500 ≥ 3000		53.6	56.1	62.6	66.5	67.7	69.7	71.0	71.0	73.6	76.8	76.8	78.1	78.7	79.4	79.
≥ 2500 ≥ 2000		55.5	58.1	65.8	68.4	69.7	71.6	72.9	72.9	75.5	78.7	78.7	80.0	80.7	81.3	81.
≥ 1800 ≥ 1500		58.1	63.9	67.1	71.0	72.3	74.8	76.1	76.1	78,7	81.9	81.9	83.2	83.9	84.5	84.
≥ 1200 ≥ 1000		63.2	66.5	72.9	77.4	78.7	81.9	82.6	82.6	85.2	89.0	89.0	90.3	91.0	91.6	91.0
≥ 900 ≥ 800		63.9	67.7	73.6	78.1	79.4	81.9	83.2	83.2	85.8	89.7	90.3	91.6	92.9	93.6	93.
≥ 700 ≥ 600		65.2	68.4	74.8	79.4	80.7	83.2	84.5	84.5	87.1	91.0	91.0	92.9	94.2	94.8	94.
≥ 500 ≥ 400		66.5	69.7	76.1	80.7	81.9	84.5	85.8	85.8	91.0	92.3	92.3	94.2	95.5	96.1	96.
≥ 300 ≥ 200		67.7	71.0	77.4	81.9	83.2	87.1	88.4	88.4	91.0	94.8	94.8	96.8	98.1	98.7	98.
≥ 100 ≥ 0		67.7	71.0	77.4	81.9	83.2	87.1	88.4	88.4	91,0	94.8	94.8	96.8	98.1	98.7	98.

TOTAL NUMBER OF OBSERVATIONS

155

5703 CEILING VERSUS VISIBILITY JAN

DIRNAVOCEANMET

SMOS

## **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

YEARS

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

09

0

5703 CEILING VERSUS VISIBILITY

0

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CEILING							VIS	BILITY (STA	ATUTE MILI	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/4	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		46.5	47.7	50.3	50.3	51.0	51,6	51.6	51.6	51.6	51.6	51.6	51.6		51.6	52.3
		50.3	21.0	54.8	54,8	55.5	56.1	50.1	56.1	50.1	56.1	56.1	30,1	56.1	50.1	50.8
≥ 18000 ≥ 16000		50.3	51.0	54.8	54.8	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.8
≥ 14000 ≥ 12000		50.3	51,6	54.8	54.8	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.8
		50.3	53.6	54.8	54.0	58.7	59.4	59.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	
≥ 10000 ≥ 9000		52.3		56.8	57.4	58.7	59.4	59.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.7
		53.6	54.8	58.7	59.4	60.7		61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	63.2
≥ 8000 ≥ 7000		54.2	55.5	59.4	60.0	61.3	61.9	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.9
		54.2	55.5	59.4	60.0	61.3		62.6	62.6	03.2	63.2	63.2	63.2	63.2	63.2	63.9
≥ 6000 ≥ 5000		56.1	58.1	61.9	62.6	63.9	64.5	65.2	65.2	05.8	65.8	65.8	65.8	65.8	65.8	66.5
		56.5	58.7	62.6	63.2	64.5	65.2	65.8	65.8	67.1	67.1	67.1	67.1	67.1	67.1	67.7
≥ 4500 ≥ 4000		57.4	60.0	63.9	64.5	65.8	66.5	67.1	67.1	68.4	68.4	68.4	68.4	68.4	68.4	69.0
≥ 3500		58.1	60.7	65.2	65.8	67.1	67.7	68.4	68.4	69.7	69.7	69.7	69.7	69.7	69.7	70.3
≥ 3000		59.4	62.6	67.1	67.7	69.0	69.7	70.3	70.3	71.6	71.6	71.6	71.6	71.6	71.6	72.3
≥ 2500		62.6	65.8	70.3	71.0	72.3	72.9	73.6	73.6	74.8	74.8	74.8	74.8	74.8	74.8	75.5
≥ 2000		65.8	69.0	73.6	74.2	75.5	76.1	76.8	76.8	78,1	78.1	78.1	78.1	78.1	78.1	78.7
≥ 1800		67.1	70.3	74.0	75.5	76.8	77.4	78.1	78.1	79.4	79.4	79.4	79.4	79.4	79.4	80.0
≥ 1500		71.0	74.2	78.7	80.0	81.3	81.9	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	84.5
≥ 1200		72.9	76.1	80.7	81.9	83.2	83.9	84.5	84.5	85.8	85,8	85.8	85.8	85.8	85.8	86.5
≥ 1000		74.2	77.4	81.9	83.2	84.5	85.2	85.8	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.7
≥ 900		74.2	78.1	82.6	83.9	85.2	85.8	86.5	86.5	87.7	87.7	87.7	87.7	87.7	87.7	88.4
≥ 800		76.8	80.7	85.2	87.7	89.0	89,7	90.3	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.9
≥ 700		77.4	81.3	85.0	88.4	89.7	90.3	91.0	91.0	92,9	92.9	92.9	92.9	92.9	92.9	93.6
≥ 600		78.1	81.9	86.5	89.0	90.3	91.0	91.6	91.6	93.6	93,6	93,6	93.6	93.6	93.6	94.2
≥ 500		78.7	83.9	88.4	91.0	92,3	92.9	94.2	94.2	96,1	96,1	96.1	96.1	96.1	96.1	96.8
≥ 400		78.7	83.9	88.4	91.0	92.3	92.9	95.5	95.5	97.4	97,4	97.4	97,4	97.4	97.4	78.1
≥ 300		78.7	83.9	88.4	91,0	92,3	92.9	96.1	96.1	40.1	98.1	78.1	48.1	78.1	98.1	98.7
≥ 200		78.7	83.9	88,4	91.0	92.3	92.9	96.1	96.1	7007	98.7	75 . 7	78.7	98.7	98.7	99.4
≥ 100		78.7	83.9	88.4	91,0	92.3	92.9	96.1	96.1	70,7	78.7	78.7	90,7	70.7		100.0
≥ 0		78.7	83.9	88.4	91.0	92.3	92.9	96.1	96.1	7017	98.7	98,7	98.7	98.7	77.4	100.0

TOTAL NUMBER OF OBSERVATIONS

15

#### **CEILING VERSUS VISIBILITY**

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CHASE FIELD, TEXAS

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5703 CEILING VERSUS VISIBILITY JAN 78

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MILI	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		38.1	38.1	38.1	38,1	36.1	38.1	38.1	38.1	38,1	38.1	38,1	38.1	38.1	38.1	38.
≥ 20000		41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41,3	41.3	41.3	41.
≥ 18000 ≥ 16000		41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.
≥ 14000 ≥ 12000		41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.9	41.9	41.3	41.3	41.3	41.3	41.3	41.
≥ 10000 ≥ 9000		43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.
≥ 8000 ≥ 7000		45.8	45.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46,5	46.5	46.5	46.
≥ 6000 ≥ 5000		46.5	46.5	47.1	47.1	47.1	47.1	47.1	47.1	47,1	47.1	47.1	47.1	47.1	47.1	47.
≥ 4500 ≥ 4000		47.7	47.7	48.4	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.
≥ 3500 ≥ 3000		50.3	50.3	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.
≥ 2500 ≥ 2000		71.6	72.3	73.6	74,2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74,2	74.2	74.2	74.
≥ 1800 ≥ 1500		81.3	81.9	83.2	84,5	84.5	84.5	84.5	84.5	91.0	84.5	84.5	91.0	84.5	84.5	84.
≥ 1200 ≥ 1000		89.0		91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.6	93.6	93.6	93.
≥ 900 ≥ 800		91.0	92.3	94.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	97.4	97.4	97.4	97.
≥ 700 ≥ 600		91.6	92.9	95.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.1	98.1	98.1	98.
≥ 500 ≥ 400		92.9	94.2	96.8	98,7	98.7	98,7	99.4	99.4	99,4	99.4	99.4	100.0	100.0	100.0	100.
≥ 300 ≥ 200		92.9	94.2	96.8	98.7	98.7	98.7	99.4	99.4	99,4	99.4	99.4	100.0	100.0	100.0	100.
≥ 100 ≥ 0		92.9	94.2	96.8	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	100,0	100.0		

TOTAL NUMBER OF OBSERVATIONS 155

#### **CEILING VERSUS VISIBILITY**

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CHASE FIELD, TEXAS

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15

CEILING					3.		VISI	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		43.2	43.2	43.2	43,2	43.2	43.2	43.2	43.2	51.0	43,2	43.2	43.2	43.2	43.2	43.2
≥ 18000 ≥ 16000		51.0 51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51,0	51.0	51.0	51.0	51.0	51.0
≥ 14000 ≥ 12000		51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 10000 ≥ 9000		55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56,1	56.1	56,1	56.1	56.1 56.1	56.1	56.1
≥ 8000 ≥ 7000		63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63,9	63,9	63.9	63.9	63.9	63.9	65.2
≥ 6000 ≥ 5000		63.9	65.2	65.2	65.2	65.2	65.2	65.2	65.2	05.2	65,2	65.2	65,2	65.2	65.2	65.2
≥ 4500 ≥ 4000		64.5	65.8	65.5	65.8	65.8	65.8	65.8	65.8	65,8	65.8	65.8	65.8	65.8	65.8	65.
≥ 3500 ≥ 3000		72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74,2	74.2	74.2	83.
≥ 2500 ≥ 2000		86.5	92.3	92.3	92.3	92.3	92,3	88.4	92.3	92.3	92,3	92.3	92,3	92.3	92.3	92.
≥ 1800 ≥ 1500		91.6	92.3	92.3	92,3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92,3	92.3	92.3	94.
≥ 1200 ≥ 1000		91.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	95.5	94.8	94.8	95.5	94.8	94.8	94.8
≥ 900 ≥ 800		92.3	95.5	95.5	95,5	95.5	95.5	96.1	96.1	96.1	96,1	98.1	96,1	96.1	96.1	96.
≥ 700 ≥ 600		94.2	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98,7	98.7	98.7	98.7	98.7	98.
≥ 500 ≥ 400		94.2	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98,7	98.7	98.7	98.
≥ 300 ≥ 200		94.2	97.4	97.4	98.1	98.1	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100 ≥ 0		94.2	97.4	97.4	98.1	98.1	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4		100.0

TOTAL NUMBER OF OBSERVATIONS

155

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

18

CEILING							VISI	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.
≥ 18000 ≥ 16000		77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.
≥ 14000 ≥ 12000		78.1 78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78 - 1	78.1	78.1	78.1	78.
≥ 10000 ≥ 9000		81.3	81.3	81.9	81.9	81.3	81.3	81.3	81.9	81.9	81.3	81.9	81.3	81.3	81.3	81.
≥ 8000 ≥ 7000		83.2	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83,9	83.9	83.9	83.9	83.9	83.9	83.
≥ 6000 ≥ 5000		84.9	84.5	85.8	85.8	85.8	85.8	85.8	85.8	89.0	85.8	89.0	85.8	85.8	85.8	85.
≥ 4500 ≥ 4000		87.7	87.7 89.0	90.3	89.0	89.0	89.0	89.0	89.0	99,0	89.0	90.3	90.3	90.3	89.0	89. 90.
≥ 3500 ≥ 3000		89.0	89.0	90.3	90.3	90.3	90.3	90.3	90.3	90:3	90.3	90.3	90.3	90.3	90.3	90.
≥ 2500 ≥ 2000		91.0	91.0	92.3	92.3	92.3	92.3	92.3	92.3	92,3	92.3	92.3	92.3	92.3	92.3	- 15 (Sec. 1981)
≥ 1800 ≥ 1500		92.3	92.3		93.6	93.6	93.6	93.6	93.6	93,6	93.6	93.6	93.6	93.6	93.6	95.
≥ 1200 ≥ 1000		94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.
≥ 900 ≥ 800		94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.8	96,8	96.8	96.8	96.5	96.8	96.
≥ 700 ≥ 600		95.5	95.5	96.8	96.8	96.8	96.8	96.8	96.8	98,1	98,1	98,1	98,1	98.7	98.1	98.
≥ 500 ≥ 400		96.1	96.1	97.4	98.1	98.1	98.1	97.4	98.1	98,7	99.4	99,4	99.4	98.7	98.7	98.
≥ 300 ≥ 200		96.1	96.1	98.1	98.1	98.1	98.1	98.7	98.7	99,4	100.0	100.0			100.0	100.
≥ 100 ≥ 0		96.1	96.1	98.1	98.1	98.1	98.1	98.7	98.7				100.0			

TOTAL NUMBER OF OBSERVATIONS

155

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5703 CEILING VERSUS VISIBILITY JAN 78

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#### **CEILING VERSUS VISIBILITY**

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CHASE FIELD, TEXAS

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5703 CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21

CEILING							VISI	BILITY (STA	ATUTE MILI	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		76.1	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.B	76.8
≥ 20000		78.7	78.7	78.7	78,7	79.4	79.4	79.4	79.4		79.4		77.4	79.4	77.4	79.4
≥ 18000 ≥ 16000		78.7	78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 14000 ≥ 12000		79.4	79.4	79.4	79.4	80.0	80.0	80.0	80.0	80.7	80.0	80.0	80.0	80.0	80.0	80.0
		81.9	81.9	81.9	81.9	82.6	82.6	82.6	82.0	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 10000 ≥ 9000		82.6	82.6	82.6	82.6	83.2	83.2	83.2	83.2	83,2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 8000		85.8	85.6	85.8	85.8	86.5	86.5	86.5	86.5	86,5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 7000		87.7	87.7	87.7	87.7	88.4	88.4	88.4	88.4	88,4	88,4	88.4	88.4	88.4	88.4	88.4
≥ 6000		87.7	87.7	87.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88,4	88.4	88.4	88.4	88.4
≥ 5000		87.7	87.7	87.7	87.7	88.4	88.4	88.4	88.4	88 . 4	88,4	88.4	88.4	88.4	88.4	88.4
≥ 4500		88.4	88.4	88.4	88,4	89.0	89.0	89.0	89.0	84.0	89,0	89.0	89.0	89.0	89.0	89.0
≥ 4000		89.0	89.0	89.0	89.0	89.7	89.7	89.7	89.7	89,7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 3500		90.3	90.3	90.3	90,3	91.0	91,0	91.0	91.0	91.0	91.0	91.0	91,0	91.0	91.0	91.0
≥ 3000		91.6	91.6	91.6	91.6	92.3	92.3	92.3	92.3	9213	92,3	92.3	92,3	92.3	92.3	92.3
≥ 2500		92.3	92.3	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 2000		93.6	93.6	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94,8	94.8	94.8	94.8
≥ 1800		94.2	94.2	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1500		94.8	94.8	95.5	95,5	96.1	96.1	96.1	96.1	96.1	96,1	96.1	96.1	96.1	96.1	96.1
≥ 1200		95.5	95.5	96.1	96:1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000		96.1	96.1	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97,4	97.4	97.4	97.4	97.4	97.4
≥ 900		96.1	96.1	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97,4	97.4	97.4	97.4	97.4	97.4
≥ 800		96.1	96.1	96.8	96.8	97.4	97.4	97.4	97.4	97,4	97,4	97.4	97.4	97.4	97.4	97.4
≥ 700		96.1	96.1	96.8	96,8	97.4	97.4	97.4	97.4	9714	97.4	97.4	97.4	97.4	97.4	97.4
≥ 600		96.8	95.8	97.4	97.4	98.1	98.1	98.1	98.1	98,1	98.1	98.1	98,1	98.1	98.1	98.1
≥ 500		97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98,7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		97.4	97.4	98.1	98,1	98.7	98.7	98.7	98.7	98.7	98,7	98.7	99,4	99.4	99.4	99.4
≥ 300		97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98,7	98,7	98.7	99,4	99.4	99.4	99.4
≥ 200		97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98,7	98 . 7	99.4	99.4	99.4	99.4
≥ 100 ≥ 0		97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

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#### **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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5703 CEILING VERSUS VISIBILITY JAN 78

(FEET)	≥ 10						AISI	BILITY (STA	ATUTE MIL	ES)						
		≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		54.3	56.1	57.8	58.3	58.6	59.1	59.4	59.4	59.8	60.1	60.1	60.3	60.4	60.5	60.8
≥ 18000		58.5	60.4	62.2	62.7	63.0	63.5	63.8	63.8	64.2	64.5	64.5	64.8	64.8	64.9	65.2
≥ 16000		58.5	60.4	62.2	62.7	63.0	63.5	63.8	63.8	64.2	64.5	64,5	64.8	64.8	64.9	65.2
≥ 14000		58.7	60.7	62.4	62.9	63.2	63.7	64.0	64.0	04.4	64,6	64.8	65.0	65.1	65.2	65.5
≥ 12000		59.2	61.1	63.0	63.5	63.8	64.3	64.0	64.6	03.0	65,3	65.3	65.6	65.7	65.7	66.1
≥ 10000 ≥ 9000		61.4	63.4	65.2	66.1	66.5	66.9	67.3	67.0	67.7	68.1	68.1	68.1	68.2	68.2	68.6
≥ 8000		64.3	66.3	68.6	69,2	69.6	70.1	70.5	70.5		71.3	71.3	71.5	71.6	71.7	72.0
≥ 7000		65.0	67.1	69.4	70.1	70.5	71.0	71.4	71.4	71.9	72.3	72.3	72.6	72.7	72.7	73.1
≥ 6000		65.1	67.2	69.5	70.2	70.6	71.1	71.5	71.5	71,9	72.4	72.4	72.7	72.7	72.8	73.2
≥ 5000		66.1	68.4	70.7	71.3	71.9	72.3	72.7	72.7	73,2	73,1	13.1	74.0	74.0	74.1	74.4
≥ 4500 ≥ 4000		66.8	69.0	71.4	72,1	72.5	73.0	73.4	73.4	75.2	74.4	74.4	75.9	76.0	74.8	75.2
	-	69.8	70.2	74.7	73.3	75.8	76.3	76.7	76.7	77.3	77.7	77.7	78.0	78.1	78.2	78.
≥ 3500 ≥ 3000		72.6	75.2	77.7	78.4	78.8	79.3	79.7	79.7	80,2	80.7	80.7	81.0	81.1	81.1	81.5
≥ 2500		76.0	78.6	81.2	81.9	82.3	82.6	83.2	83.2	63.8	84.3	84.3	84.5	84.6	84.7	85.0
≥ 2000		79.0	81.8	84.4	85.1	85.9	86.1	86.5	86.5	87.0	87.5	87.5	87.7	87.8	87.9	88.2
≥ 1800		79.5	82,3	84.9	85.7	86.1	86.7	87.1	87.1	87.7	88.2	88.2	88.4	88.5	88.6	88.9
≥ 1500		81.9	84.8	87.5	88.4	88.8	89,4	87.8	89.8	90.4	90.9	90.9	71.1	91.2	91.3	91.6
≥ 1200 ≥ 1000		82.9	86.0	89.6	90.7	90.1	90.7	91.1	91.1	9117	92.3	93.4	92.6	92.7	92.7	93.1
		83.9	87.1	89.9	91.1	91.9	92.0	92.5	92.5	93.2	93.7	93.7	94.1	94.3	94.4	94.7
≥ 900 ≥ 800		84.8	88.0	90.8	92.2	92.6	93.2	93.6	93.6	94.4	95.0	95.0	95.4	95.6	95.7	96.0
≥ 700		85.3	88.6	91.4	92.7	93.2	93.7	94.2	94.2	94.9	95.0	95.6	96.0	96.1	96.2	96.5
≥ 600		85.7	89.0	91.8	93.2	93.6	94.2	94.8	94.8	95,5	96.1	96.1	96.5	96.7	96.8	97.1
≥ 500 ≥ 400		86.3	89.7	92.5	94.0	94.4	95,1	95.7	95.7	96,5	97.2	97.2	97.6	97.7	97.8	98.2
≥ 400		86.5	89.8	92.7	94.3	94.7	95.6	96.4	96.4	97.1	97,8	97.8	98.3	98.6	98.6	
≥ 300		86.5	89.8	92.5	94.4	94.8	95.7	96.6	96.6	97.4	98.2	98.2	98.6	98.9	99.0	2000
≥ 200		86.5	89.8	92.8	94,4	94.8	95.7	96.6	96.6	97,5	98,2	98.2		99.0	99.0	99.4
≥ 100 ≥ 0		86.5	89.8	92.8	94.4	94.8	95.7	96.6	96.0	97.5	98.2	98.2	98.7	99.0	99.1	100 • 0

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET

SMOS

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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5703 CEILING VERSUS VISIBILITY JAN 78

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# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

OO HOURS (L S Y )

CEILING		٥					VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		55.3 56.0	56.0	57.3	58.0	58.0	58.0	58.7	58.7	60.0	60.0	61.3	60.0	60.7	62.0	60.7
≥ 18000 ≥ 16000		56.0	57.3	58.7	59.3	59.3	59.3	60.0	60.0	61,3	61.3	61.3	61.3	62.0	62.0	62.0
≥ 14000 ≥ 12000		56.0	57.3	58.7	59.3	59.3	59.3	60.0	60.0	61,3	61,3	61.3	61.3	62.0	62.0	65.0
≥ 10000 ≥ 9000		57.3 57.3	58.7	60.0	60.7	60.7	60.7	61.3	61.3	62.7	62.7	62.7	62.7	63.3	63.3	63.3
≥ 8000 ≥ 7000		58.7	61.3	61.3	62.0	62.0	62.0	62.7	62.7	65,3	65,3	65.3	65,3	66.0	64.7	64.7
≥ 6000 ≥ 5000		61.3	61.3	64.0	64.7	64.7	64.7	65.3	65.3	65.3	66.7	65.3	65.3	67.3	67.3	67.3
≥ 4500 ≥ 4000		62.7	64.0	65.3	66.0	66.0	66.0	66.7	66.7	68.0	68.0	68.0	68.0	68.7	68.7	68.7
≥ 3500 ≥ 3000		65.3	66.7	70.0	68,7	70.7	68.7	71.3	71.3	70.7	70,7	70.7	70,7	71.3	71.3	71.3
≥ 2500 ≥ 2000		70.7	72.0	73.3	74.0	74.0	74.0	74.7	74.7	76.7	76.0	76.0	76.0	76.7	76.7	76.7
≥ 1800 ≥ 1500		72.7	74.0	75.3	76.0	76.0	76.0	76.7	76.7	78.0	78.0	78.0	78.0	78.7	80.0	80.0
≥ 1200 ≥ 1000		78.7	80.0	82.0	82.7	82.7	82.7	83.3	83.3	84.7	84.7	84.7	84.7	85.3	85.3	85.3
≥ 900 ≥ 800		80.7	82.7	84.7	84.7	84,7	84.7	85.3	85.3	87,3	86.7	87.3	87.3	88.0	87.3	87.3
≥ 700 ≥ 600		80.7	83.3	86.0	86,7	86.7	87.3	88.0	88.0	90,7	89,3	90.7	90.7	90.0	90.0	90.0
≥ 500 ≥ 400		84.0	86.7	90.0	90.7	90.7	91,3	92.0	92.7	93.3	93,3	93.3	93.3	94.0	94.0	94.0
≥ 300 ≥ 200		84.7	87.3	90.7	91.3	91.3	92.7	93.3	93.3	95,3	95.3	95.3	95.3	96.0	96.0	96.0
≥ 100 ≥ 0		84.7	87.3	90.7	91.3	91.3	92.7	93.3	93.3	96,7	96.7	96.7	96.7	97.3	98.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

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#### **CEILING VERSUS VISIBILITY**

12925 CHASE FIELD, TEXAS

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		48.0	50.0	52.7	52.7	52.7	52.7	53.3	53.3	53.3	53.3	53.3	55.3	56.0	56.7	58.0
≥ 20000		50.0	52.0	54.7	54.7	54.7	54.7	55.3	55.3	55.3	55.3	55.3	57.3	58.0	58.7	60.7
≥ 18000		50.0	52.0	54.7	54,7	54.7	54.7	55.3	55.3	55.3	55,3	55.3	57.3	58.0	58.7	60.7
≥ 16000		50.0	52.0	54.7	54.7	54.7	54.7	55.3	55.3	55,3	55.3	55,3	57.3	58.0	58.7	60.7
≥ 14000		50.0	52.0	54.7	54,7	54.7	54.7	55.3	55.3	55.3	55.3	55.3	57.3	58.0	58.7	60.7
≥ 12000		50.0	52.0	54.7	54.7	54.7	54.7	55.3	55.3	55,3	55.3	55.3	57.3	58.0	58.7	60.7
≥ 10000		50.0	52.0	54.7	54,7	54.7	54.7	55.3	55.3	55,3	55,3	55.3	57,3	58.0	58.7	60.7
≥ 9000		50.0	52.0	54.7	54.7	54.7	54.7	55.3	55.3	55.3	55.3	55.3	57.3	58.0	58.7	60.7
≥ 8000		50.7	52.7	55.3	55.3	55.3	55.3	56.0	56.0	20.0	56.7	56.7	58,7	59.3	60.0	62.0
≥ 7000		50.7	52.7	55.3	55.3	55.3	55.3	50.0	56.0	20.0	56.7	50.7	56.7	59.3	60.0	62.0
≥ 6000		50.7	52.7	55.3	55.3	55.3	55.3	56.0	56.0	20.0	56.7	56.7	58.7	59.3	60.0	62.0
≥ 5000		52.0	54.0	56.7	56.7	56.7	56.7	57.3	57.3	5/43	58.0	58.0	60.0	60.7	61.3	63.3
≥ 4500		52.7	54.7	57.3	57,3	57.3	57,3	58.0	58.0	58.0	58,7	58,7	60,7	61.3	62.0	64.0
≥ 4000		54.0	56.0	58.7	58.7	58,7	58,7	59.3	59.3	59,3	60.0	60.0	62.0	62.7	64.0	66.0
≥ 3500		54.0	56.0	58.7	58.7	58.7	58.7	59.3	59.3	59.3	60.0	60.0	62.0	62.7	64.0	66.0
≥ 3000		56.0	58.7	61.3	61.3	61.3	61.3	62.0	62.0	62.0	62.7	62.7	64.7	65.3	66.7	68.7
≥ 2500		58.0	60.7	63.3	64,0	64.0	64.0	64.7	64.7	0497	65,3	65.3	67.3	68.0	69.3	71.3
≥ 2000		60.0	62.7	65.3	66.0	66.0	56.0	66.7	66.7	66,7	67.3	67.3	69.3	70.0	71.3	73.3
≥ 1800		60.7	63.3	66.0	66,7	66.7	66.7	67.3	67.3	67,3	68.0	68.0	70,0	70.7	72.0	74.0
≥ 1500		66.0	68.7	71.3	72.0	72.0	72.0	72.7	72.7	72.7	73.3	73.3	75.3	76.0	77.3	79.3
≥ 1200		69.3	72.0	74.7	75,3	75,3	75.3	76.0	76.0	76.0	76,7	76.7	78,7	79.3	80.7	82.
≥ 1000		71.3	74.0	76.7	77.3	77.3	77.3	78.0	78.0	78.7	79.3	79.3	81.3	82.0	83.3	85.3
≥ 900 ≥ 800		73.3	76.0	78.7	79.3	79.3	79.3	80.0	80.0	80.7	81.3	81.3	83.3	84.0	85.3	87.3
≥ 800		75.3	78.0	80.7	81.3	81.3	81.3	82.0	82.0	82.7	83,3	83.3	85,3	86.0	87.3	89.3
≥ 700		76.0	79, 3	82.0	82,7	82.7	83.3	84.0	84.0	8417	85,3	85.3	87.3	88.0	89.3	91.3
≥ 600		76.0	79.3	82.0	82.7	82.7	83.3	84.0	84.0	84.7	85,3	85.3	87,3	88.0	89.3	91.3
≥ 500		76.0	79.3	82.0	82,7	82.7	84.0	84.7	84,7	65,3	86,0	86.0	88,0	88.7	90.0	92.0
≥ 400		76.0	79.3	82.0	82.7	82.7	84.0	84.7	84.7	05.3	86,7	86.7	88.7	89.3	90.7	92.7
≥ 300		76.7	80.0	83.3	84.7	84.7	86.0	8607	86.7	87.3	88.7	88.7	90.7	91.3	92.7	94.7
≥ 200		76.7	80.0	84.0	85.3	85.3	87.3	88.0	88.0	89,3	90.7	90.7	92.7	93.3	94.7	97.3
≥ 100		76.7	80.0	84.0	85.3	85.3	87.3	88.0	88.0	90.0	91,3	91.3	93.3	94.7	96.7	99.3
≥ 0		76.7	80.0	84.0	85.3	85.3	87.3	88.0	88.0	90.0	91.3	91.3	93.3	94.7	96.7	100.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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5703 CEILING VERSUS VISIBILITY

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CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		44.0	45.3	46.7	50.0	50.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	52.0	54.0
≥ 18000 ≥ 16000		45.3		48.0	51.3	51.3	52,7	52.7	52.7	52.7	52.7	52.7	53.3	53.3	54.0	56.7
≥ 14000 ≥ 12000		45.3	46.7	48.0	51.3	51.3 51.3	52.7	52.7	52.7	52.7	52.7	52.7	53,3	53.3	54.0	56.7
≥ 10000 ≥ 9000		45.3	46.7	48.0	51.3	51.3	52.7	52.7	52.7	52.7	52.7	52.7	53.3	53.3	54.0	56.
≥ 8000 ≥ 7000		48.0	49.3	50.7	54.0	54.0	55.3	55.3	55.3	55.3	55.3	55.3	56.0	56.0	56.7	59.3
≥ 6000 ≥ 5000		48.7	50.0	51.3	54.7	54.7	56.0	56.7	56.7	56.7	56.7	56.7	57.3	57.3	58.0	60.
≥ 4500 ≥ 4000		51.3	52.7	54.0	57.3	57.3	58.7	59.3	59.3	59.3	59.3	59.3	60.0		60.7	63.
≥ 3500 ≥ 3000		54.7	56.0	57.3	60.7	60.7	62.0	62.7	62.7	62.7	62.7	62.7	63,3	63.3	64.0	68.
≥ 2500 ≥ 2000		56.7	58.0	59.3	62.7	62.7	64.0	64.7	64.7	68.0	64.7	64.7	65.3	65.3	70.0	69.
≥ 1800 ≥ 1500		61.3	62.7	64.0	67.3	67.3	68.7	70.0	70.0	70.0	70.0	70.0	70.7	70.7	72.0	74.7
≥ 1200 ≥ 1000		68.7	70.0	72.0	75.3	75.3	77.3	78.7	78.7	78.7	78.7	78.7	79.3	79.3	80.7	83.3
≥ 900 ≥ 800		70.7	72.7	74.7	78.0		80.0	81.3	81.3	81.3	81.3	81.3	82.0	82.0	83.3	86.0
≥ 700 ≥ 600		72.0	74.0	76.0	79.3	79.3	81.3	82.7	82.7	82.7	82.7	82.7	83.3	83.3	84.7	87.3
≥ 500 ≥ 400		72.7	76.0	78.7	82.7	82.0	84.0	85.3	85.3	85.3	85.3	85.3	86.0	86.0	87.3	90.0
≥ 300 ≥ 200		72.7	76.0	79.3	82.7	82.7	84.7	86.0	86.0	86,7	86.7	86.7	90.0	90.0	92.0	91.
≥ 100 ≥ 0		72.7	76.0	79.3	83.3	83.3	85.3	86.7	86.7	90.0	90.7	90.7	92.0	92.0	94.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

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5703 CEILING VERSUS VISIBILITY JAN 7

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		36.7	38.0	39.3	40.C	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	41.
≥ 20000		40.7	42.7	44.0	44.7	45.3	45.3	45.3	45.3	45,3	45.3	45.3	45.3	45.3	45.3	46.
≥ 18000 ≥ 16000		41.3	43.3	44.7	45.3	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.
≥ 14000 ≥ 12000		41.3	43.3	44.7	45.3	46.0	46,0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.
≥ 10000 ≥ 9000		42.0	44.0	45.3	46.0	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	47.
≥ 8000 ≥ 7000		44.7	46.7	50.0	48.7	49.3	49.3	49.3	51.3	51.3	49.3	49.3	51.3	49.3	49.3	50.
≥ 6000 ≥ 5000		50.0	52.0	53.3	54.0	54.7	56.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	55.
≥ 4500 ≥ 4000		52.7	55.3	56.7	57.3	58.0	58.0	58.7	58.7	58,7	58,7	58.7	58.7	58.7	58.7	59
≥ 3500 ≥ 3000		55.3	58.0	60.0	61.3	62.0	62.0	62.7	62.7	62.7	62.7	66.0	62.7	62.7	62.7	63.
≥ 2500 ≥ 2000		60.0	63.3	66.0	68.0	68.7	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	70.
≥ 1800 ≥ 1500		60.0	64.0	70.0	68.7	69.3	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.
≥ 1200 ≥ 1000		65.3	69.3	72.0	74.0	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76,0	76.0	76.0	76.
≥ 900 ≥ 800		67.3	72.7	75.3	79.3	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.
≥ 700 ≥ 600		70.0	75.3	79.3	83.3	85.3	86.0	86.7	86.7	86.7	86.7	86.7	87.3	87.3	87.3	88.
≥ 500 ≥ 400		71.3	76.7	81.3	85.3	87.3	89,3	90.0	90.0	90.0	90.0	90.0	90.7	90.7	90.7	91.
≥ 300 ≥ 200		72.0	77.3	82.0	86.0	88.0	91.3	92.7	92.7	92.7	92.7	92.7	94.0	94.0	94.0	94.
≥ 100 ≥ 0		72.0	77.3	82.0	86.0	88.0	91.3	93.3	93.3	93.3	94.0	94.0	96.0	96.0	96.0	98.

TOTAL NUMBER OF OBSERVATIONS

150

#### **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		44.7	44.7	44.7	44,7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44,7	44.7	44.7	44.
≥ 20000		47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47,3	47,3	47.3	47.3	47.3	47.3	47.
≥ 18000 ≥ 16000		47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47
≥ 14000		47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.
≥ 12000		47.3	47.3	47.3	41.3	41.3	47.3	41.3	41.3	4/13	41.3	4113	41,3	47.3	41.3	411
≥ 10000 ≥ 9000		48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48
≥ 8000		51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.
≥ 7000		51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.
≥ 6000		52.7	52.7	53.3	53.3	53.3	53.3	53.3	53.3	53,3	53.3	53.3	53.3	53.3	53.3	53.
≥ 5000		54.0	54.0	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54,7	54.7	54.7	54.7	54.7	54
≥ 4500		54.7	54.7	55.3	55.3	55.3	55.3	55.3	55.3	55,3	55.3	55.3	55.3	55.3	55.3	55
≥ 4000		56.7	56.7	37.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57
≥ 3500		57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58,0	58.0	58.0	58.0	58.0	58.0	58
≥ 3000		60.7	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62,0	62.0	62.0	62.0	62.0	62
≥ 2500		68.0	68.7	69.3	69.3	69.3	69.3	69.3	69.3	94.3	69.3	69.3	69.3	69.3	69.3	69
≥ 2000		76.7	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78,0	78.0	78,0	78.0	78.0	78.0	78
≥ 1800		78.0	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79
≥ 1500		84.7	86.0	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87
≥ 1200		86.0	87.3	88.7	89.3	89.3	89.3	89.3	89,3	8913	89,3	89.3	89.3	89.3	89.3	89
≥ 1000		86.7	88,7	90.7	92.0	92.7	92.7	92.7	92.7	92.7	92,7	92.7	92,7	92.7	92.7	92
≥ 900		87.3	90.0		93,3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94
≥ 800		88.0	90.7	93.3	94.7	95.3	95.3	95.3	95.3	95,3	95,3	95.3	95,3	95.3	95.3	95
≥ 700		88.0	90.7	93.3	94.7	96.0	96.0	96.0	96.0	98.0	96.0	96.0	96.0	96.0	96.0	96
≥ 600		88.0	90.7	93.9	94,7	96.0	96.0	96.0	96.0	9010	96,0	96.0	96,0	96.0	96.0	96
≥ 500		88.7	91.3	95.3	96.7	99.3	99.3	99.3	99.3	9913	99.3	99.3	99.3	99.3	99.3	99
≥ 400		88.7	91.3	95.3	96.7	99,3	99.3	99.3	99.3	99,3	99,3	99.3	99,3	99.3	99.3	99
≥ 300		88.7	91.3	95.3	96,7	99.3	99.3	99.3	99.3	34.3	99.3	99.3	99.3	99.3	99.3	99
≥ 200		88.7	91.3	95.3	96.7	99.3	99.3	99.3	99.3	99.3	99.3		100.0		100.0	
≥ 100		88.7	91.3	95.3	96.7	99.3	99.3	99.3	99.3	99,3	99,3		100.0		100.0	
≥ 0		88.7	91.3	95.3	96.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET

5703 CEILING VERSUS VISIBILITY JAN 78

#### **CEILING VERSUS VISIBILITY**

12925 CHASE FIFLO, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING ≥ 10 > 6 2 5 ≥ 21/2 ≥ 11/4 ≥ 14 ≥ 1 ≥ ¾ ≥ % ≥ 5/16 ≥ 0 47.3 47.3 47.3 47.3 47.3 53.3 53.3 53.3 53.3 53.3 47.3 47.3 47.3 53.3 53.3 53.3 NO CEILING 53.3 ≥ 20000 53.3 53.3 53.3 53.3 53.3 53.3 53.3 53.3 ≥ 18000 ≥ 16000 53,3 53,3 55,3 55,3 53.3 ≥ 14000 ≥ 12000 ≥ 6000 ≥ 5000 ≥ 4500 ≥ 4000 ≥ 3500 ≥ 3000 ≥ 2500 ≥ 2000 94.0 94.7 94.7 94.7 95.3 95.3 95.3 95.3 500 400 97.3 98.0 98.0 98.7 99.3 99.3100.0100.0100.0100.0 97.3 98.0 98.0 98.7 99.3 99.3100.0100.0100.0100.0 97.3 98.0 98.0 98.7 99.3 99.3100.0100.0100.0100.0 97.3 98.0 98.0 98.7 99.3 99.3100.0100.0100.0100.0 95.3 96.7 96.7 100

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

#### **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		62.0	62.0		62,7	62.7	62,7	62.7	62.7	62.7	62,7	62.7	62.7	62.7	62.7	62.7
≥ 20000		66.7	66.7	-	67.3	67.3	57.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 18000 ≥ 16000		66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
		68.0	68.0	68.7	68.7	. 0	68.7	67.3	68.7	68.7	68.7	68.7	68.7	68.7		68.7
≥ 14000 ≥ 12000			68.0	68.7	68.7	68.7		68.7	68.7	68.7	68.7	68.7	8 7		68.7	68.
		68.7	68.7	69.3	69.3	69.3	69.3	68.7	69.3	-	69.3	69.3	69 9	69.3	69.3	69.
≥ 10000 ≥ 9000		68.7	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.
>		69.3	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 8000 ≥ 7000		70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
		70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 6000 ≥ 5000		72.0	72.0	73.3	73.3	73.3	73.3	73.3	73.3	73.2	73.3	73.3	73.3	73.3	73.3	73.
≥ 4500		73.3	73.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.
≥ 4500 ≥ 4000		77.3	77.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.
≥ 3500		78.7	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3000		82.0	82.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 2500		83.3	84.0	85.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2000		87.3	88.0	89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1800		87.3	88.0	89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1500		89.3	90.0	91.3	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1200		90.0	90.7	92.0	92.0	92.7	92.7	92.7	92.7	92,7	92.7	92.7	92.7	92.7	92.7	92.1
≥ 1000	.7	93.3	94.0	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 900	.7	94.0	94.7	96.0	96.0	96.7	96.7	96.7	96,7	96.7	96,7	96.7	96.7	96.7	96.7	96.7
≥ 800	.7	94.0	94.7	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 700	.7	94.0	94.7	96.0	96.0	96.7	96.7	96.7	96.7	96,7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 700 ≥ 600	.7	94.0	94.7	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 500	.7	94.0	94.7	96.7	96.7	97,3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500 ≥ 400	.7	94.7	95.3	97.3	97.3	98.0	98.7	98.7	98.7	99,3	99,3	99.3	99.3	99.3	99.3	99.3
≥ 300	.7	94.7	95.3	97.3	97.3	98.0	98.7	98.7	98,7	99,3	99,3	99.3	99,3	99.3	99.3	99.3
≥ 200	.7	94.7	95.3	97.3	97.3	98.0	98.7	98.7	98.7	99,3	99.3	99.3	99.3	99.3	100.0	100.0
≥ 100	.7	94.7	95.3	97.3	97.3	98,0	98.7	98.7	98.7	99,3	99.3	99,3	99,3	-	100.0	-
≥ 0	.7	94.7	95.3	97.3	97.3	98.0	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

150

5703 CEILING VERSUS VISIBILITY JAN 78

0

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	•	64.7	69.3	64.7	64.7	64.7	64.7	64.7	69.3	64.7	64.7	64.7	64.7	64.7	69.3	64.
≥ 18000 ≥ 16000		69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.
≥ 14000 ≥ 12000		69.3	70.0	70.0	69.3	70.0	70.0	69.3	69.3	70.0	69.3	70.0	70.0	69.3	70.0	69.
≥ 10000 ≥ 9000		71.3	71.3	71.3	71,3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.
≥ 8000 ≥ 7000		73.3 73.3	73.3	73.3 73.3	73.3	73.3	73.3	73.3	73.3	73.3	73,3	73.3	73.3	73.3	73.3	73.
≥ 6000 ≥ 5000		73.3	73.3	73.3	73.3	73.3	73,3	73.3	73.3	73,3	73,3	73.3	73.3	73.3	73.3	73.
≥ 4500 ≥ 4000		75.3 77.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.9	75,3	75.3	75.3	75.3	75.3	75
≥ 3500 ≥ 3000		78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78,7	78.7	78.7	78.7	78.7	78.7	78.
≥ 2500 ≥ 2000		82.0	84.0	84.0	82.7	82.7	82.7	82.7	82.7	84.7	82.7	82.7	84.7	82.7	84.7	84
≥ 1800 ≥ 1500		84.7	88.0	84.7	85.3	85.3	85.3	85.3	85.3	85,3	85.3	85.3	85.3	85.3	85.3	85.
≥ 1200 ≥ 1000		90.7	90.7	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91,3	91.3	92.0	91.3	91.3	91.
≥ 900 ≥ 800		91.3	91.3	91.3	92,0	93.3	92.7	92.7	94.7	92.7	92.7	94.7	94,7	92.7	92.7	92.
≥ 700 ≥ 600		92.7	92.7	92.7	94.0	93.3	95.3	95.3	95.3	95,3	95.3	95.3	95.3	95.3	94.7	95.
≥ 500 ≥ 400		94.7	94.7	94.7	95.3	95.3	96.7	96.7	96.7	98,7	98.7	98,7	98.7	98.7	98.7	98
≥ 300 ≥ 200		95.3	95.3	95.3	96.0	96.0	98.0	98.0	98.0	98,7	98,7	98.7	99,3	-	100.0	
≥ 100 ≥ 0		95.3	95.3	95.3	96.0	96.0	98.0	98.0	98.0	98,7	98.7	98.7	99.3		100.0	

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

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5703 CEILING VERSUS VISIBILITY JAN 7

0

#### **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

(FEET) ≥  AO CEILING ≥ 20000 ≥ 18000 ≥ 18000 ≥ 12000 ≥ 12000 ≥ 10000 ≥ 9000 ≥ 8000 ≥ 7000 ≥ 6000 ≥ 5000 ≥ 4500 ≥ 4500 ≥ 4000 ≥ 3500 ≥ 4500 ≥ 2000 ≥ 18000 ≥ 18000 ≥ 18000 ≥ 25000 ≥ 18000	≥ 10	> 6 50.3 53.6 53.7 53.7 53.8 54.8 54.9 56.9 57.6 58.3 59.8 60.8 62.7	51.0 54.4 54.5 54.7 55.1 55.1 55.7 67.8 60.7 61.8 63.6	51.9 55.3 55.4 55.6 56.0 56.6 56.7 58.7 59.3 60.2 61.8 62.9 64.8	≥ 3 52.5 55.9 56.0 56.2 57.2 57.3 59.3 60.6 62.4 63.5 65.4	52.6 56.0 56.1 56.1 56.3 57.3 57.3 57.3 60.0 60.8 62.5 63.6 63.6	≥ 2 52.8 56.2 56.3 56.3 56.3 57.4 57.5 59.5 60.2 61.07 63.87	52.9 56.3 56.4 56.6 57.0 57.7 59.7 60.4 61.3 62.9	52.9 56.3 56.4 56.4 56.6 57.0 57.7 59.7 60.4 61.3 62.9	≥1 53,1 56,5 56,6 56,6 57,2 57,8 57,8 57,8 57,8 61,4 63,1	53.1 56.5 56.6 56.6 56.8 57.2 57.8 57.8 57.8 60.7 61.5 63.2	≥ % 53.1 56.5 56.6 56.6 57.2 57.8 57.8 59.9 60.5 63.2 64.3	53,3 56,8 56,9 56,9 57,1 57,5 58,1 60,3 61,0 61,8 63,5	57.0 57.1 57.1 57.3 57.7 58.3 58.3 60.4 61.2 62.0 63.7	57.2 57.3 57.4 57.8 58.4 58.5 60.6 61.3	57.9 58.1 58.5 59.1 59.2 61.3 62.0 62.8 64.5
≥ 20000  ≥ 18000 ≥ 16000  ≥ 14000 ≥ 12000 ≥ 10000 ≥ 9000 ≥ 9000 ≥ 7000 ≥ 5000 ≥ 4500 ≥ 4500 ≥ 4500 ≥ 3500 ≥ 3000 ≥ 2500 ≥ 2500 ≥ 2500 ≥ 2000		53.6 53.7 53.7 53.8 54.8 54.9 56.9 57.6 58.3 59.8 60.8 62.7	54.4 54.5 54.7 55.1 55.7 55.8 57.8 57.8 59.2 60.7 61.8 63.6	55.3 55.4 55.6 55.6 56.6 56.7 58.7 59.3 60.2 61.8	55,9 56,0 56,0 56,2 57,2 57,3 59,3 59,9 60,8 62,4 63,5	56.0 56.1 56.3 56.7 57.3 57.3 59.3 60.0 60.8 62.5	56,2 56,3 56,4 56,4 57,5 57,5 59,5 60,2 61,0 62,7 63,8	56.4 56.4 56.6 57.0 57.6 57.7 59.7 60.4 61.3 62.9	56.3 56.4 56.6 57.0 57.6 57.7 59.7 60.4 61.3 62.9 64.1	56.5 56.6 56.8 57.2 57.8 57.8 57.8 60.6 61.4 63.1	56.5 56.6 56.8 57.2 57.8 57.8 57.8 59.9 60.7 61.5 63.2	56.5 56.6 56.6 56.8 57.2 57.8 57.8 59.9 60.7	56.8 56.9 57.1 57.5 58.1 58.2 60.3 61.0 61.8 63.5	57.0 57.1 57.1 57.3 57.7 58.3 58.3 60.4 61.2 62.0 63.7	57.2 57.3 57.3 57.4 57.8 58.4 58.5 60.6 61.3 62.2 63.8	57.8 57.9 57.9 58.1 58.5 59.1 59.2 61.3 62.0 62.8 64.5
≥ 18000 ≥ 14000 ≥ 14000 ≥ 12000 ≥ 10000 ≥ 9000 ≥ 8000 ≥ 7000 ≥ 6000 ≥ 5000 ≥ 4500 ≥ 4500 ≥ 3500 ≥ 3500 ≥ 2500 ≥ 2500 ≥ 2500 ≥ 2500 ≥ 2000		53.7 53.8 54.8 54.9 56.9 57.6 58.3 59.8 60.8 62.7	54.5 54.5 55.1 55.7 55.8 57.8 57.8 59.2 60.7 61.8 63.6	55.4 55.6 56.0 56.0 56.7 58.7 59.3 60.2 61.8	56.0 56.2 56.6 57.3 59.3 59.9 60.8 62.4	56.1 56.3 56.7 57.3 57.3 59.3 60.0 60.8 62.5	56.3 56.4 56.8 57.4 57.5 60.2 61.0 62.7 63.8	56.4 56.6 57.0 57.6 57.7 59.7 60.4 61.3 62.9	56.4 56.6 57.0 57.0 57.7 59.7 60.4 61.3 62.9	56.6 56.8 57.2 57.8 57.8 57.8 60.6 61.4 63.1	56.6 56.8 57.2 57.8 57.8 59.9 60.7 61.5 63.2	56.6 56.6 56.8 57.2 57.8 57.8 59.9 60.7 61.5	56.9 57.1 57.5 58.1 58.2 60.3 61.0 61.8 63.5	57.1 57.3 57.3 57.3 58.3 58.3 60.4 61.2 62.0 63.7	57.3 57.4 57.4 57.8 58.4 58.5 60.6 61.3 62.2 63.8	57.9 57.9 58.1 58.5 59.1 59.2 61.3 62.0 62.8 64.5
≥ 16000  ≥ 14000 ≥ 12000 ≥ 10000 ≥ 9000 ≥ 9000 ≥ 7000 ≥ 5000 ≥ 4500 ≥ 4500 ≥ 4000 ≥ 3500 ≥ 3000 ≥ 2500 ≥ 2500 ≥ 2500 ≥ 2000		53.7 53.6 54.3 54.8 54.9 56.9 57.6 58.3 59.8 60.8 62.7	54,5 55.1 55.1 55.8 57.8 58.4 59.2 60.7 61.8 63.6	55.4 55.6 56.6 56.7 58.7 59.3 60.2 61.8	56.0 56.2 56.6 57.2 57.3 59.3 59.9 60.8 62.4 63.5	56.1 56.3 56.7 57.3 57.3 59.3 60.0 60.8 62.5	56.3 56.4 56.8 57.4 57.5 59.5 60.2 61.0 62.7 63.8	56.4 55.6 57.0 57.6 57.7 59.7 60.4 61.3 62.9	56.4 56.6 57.0 57.6 57.7 59.7 60.4 61.3 62.9	56.6 56.8 57.2 57.8 57.8 59.8 60.6 61.4 63.1	56.6 56.8 57.2 57.8 57.8 59.9 60.7 61.5 63.2	56.6 56.8 57.2 57.8 57.8 59.9 60.7	56.9 57.1 57.5 58.1 58.2 60.3 61.0 61.8 63.5	57.1 57.3 57.7 58.3 58.3 60.4 61.2 62.0 63.7	57.3 57.4 57.8 58.4 58.5 60.6 61.3 62.2 63.8	57.9 58.1 58.5 59.1 59.2 61.3 62.0 62.8 64.5
≥ 14000 ≥ 12000 ≥ 10000 ≥ 9000 ≥ 8000 ≥ 7000 ≥ 5000 ≥ 5000 ≥ 4500 ≥ 4000 ≥ 3500 ≥ 3500 ≥ 2500 ≥ 2500 ≥ 2500 ≥ 2500		53.6 54.3 54.8 54.9 56.9 57.6 58.3 59.8 60.8 62.7	54.7 55.1 55.7 55.8 57.8 58.4 59.2 60.7 61.8 63.6	55.6 56.0 56.6 56.7 58.7 59.3 60.2 61.8	56.2 56.6 57.2 57.3 59.3 59.9 60.8 62.4 63.5	56.3 56.7 57.3 57.3 60.0 60.8 62.5	56.4 56.8 57.4 57.5 59.5 60.2 61.0 62.7 63.8	56.6 57.0 57.6 57.7 59.7 60.4 61.3 62.9	56.6 57.0 57.6 57.7 59.7 60.4 61.3 62.9	56.8 57.2 57.8 57.8 59.8 60.6 61.4 63.1	56.8 57,2 57.8 57.8 59.9 60.7 61.5 63.2	56.8 57.2 57.8 57.8 59.9 60.7	57.1 57.5 58.1 58.2 60.3 61.0 61.8 63.5	60.4 61.2 62.0 63.7	60.6 61.3 62.2 63.8	58.1 58.5 59.1 59.2 61.3 62.0 62.8 64.5
≥ 12000 ≥ 10000 ≥ 9000 ≥ 8000 ≥ 7000 ≥ 5000 ≥ 4500 ≥ 4500 ≥ 4500 ≥ 3500 ≥ 3500 ≥ 2500 ≥ 2500 ≥ 2500		54.8 54.9 56.9 57.6 58.3 59.8 60.8 62.7	55.1 55.8 57.8 58.4 59.2 60.7 61.8 63.6	56.0 56.6 56.7 58.7 59.3 60.2 61.8	56,6 57,2 57,3 59,3 59,9 60,8 62,4	56.7 57.3 57.3 59.3 60.0 60.8 62.5	56.8 57.4 57.5 59.5 60.2 61.0 62.7 63.8	57.0 57.6 57.7 59.7 60.4 61.3 62.9	57.0 57.6 57.7 59.7 60.4 61.3 62.9	57,2 57,8 57,8 59,8 60,6 61,4 63,1	57,2 57.8 57.8 59.9 60.7 61.5 63.2	57.2 57.8 57.8 59.9 60.7	58.1 58.2 60.3 61.0 61.8 63.5	60.4 61.2 62.0 63.7	60.6 61.3 62.2 63.8	58.5 59.1 59.2 61.3 62.0 62.8 64.5
≥ 10000 ≥ 9000 ≥ 8000 ≥ 7000 ≥ 6000 ≥ 5000 ≥ 4500 ≥ 4000 ≥ 3500 ≥ 3500 ≥ 2500 ≥ 2000		54.8 54.9 56.9 57.6 58.3 59.8 60.8 62.7	55.7 55.8 57.8 58.4 59.2 60.7 61.8 63.6	56.6 56.7 58.7 59.3 60.2 61.8	57.2 57.3 59.3 59.9 60.8 62.4	57.3 57.3 59.3 60.0 60.8 62.5	57.4 57.5 59.5 60.2 61.0 62.7 63.8	57.6 57.7 59.7 60.4 61.3 62.9	57.0 57.7 59.7 60.4 61.3 62.9	57.8 57.8 59.8 60.6 61.4 63.1	59.9 60.7 61.5 63.2	61,5	58.1 58.2 60.3 61.0 61.8 63.5	60.4 61.2 62.0 63.7	60.6 61.3 62.2 63.8	59.1 59.2 61.3 62.0 62.8 64.5
≥ 9000 ≥ 8000 ≥ 7000 ≥ 6000 ≥ 5000 ≥ 4500 ≥ 4000 ≥ 3500 ≥ 3500 ≥ 2500 ≥ 2500 ≥ 2000		54.9 56.9 57.6 58.3 59.8 60.8 62.7	55.8 57.8 58.4 59.2 60.7 61.8 63.6	56.7 58.7 59.3 60.2 61.8	57.3 59.3 59.9 60.6 62.4	60.0 60.8 62.5 63.6	59.5 60.2 61.0 62.7 63.8	57.7 59.7 60.4 61.3 62.9	57.7 59.7 60.4 61.3 62.9	57,8 59.8 60.6 61,4 63.1	59.9 60.7 61.5 63.2	61,5	58,2 60.3 61.0 61.8 63,5	60.4 61.2 62.0 63.7	60.6 61.3 62.2 63.8	61.3 62.0 62.8 64.5
≥ 8000 ≥ 7000 ≥ 5000 ≥ 4500 ≥ 4000 ≥ 3500 ≥ 3500 ≥ 2500 ≥ 2500 ≥ 2000		56.9 57.6 58.3 59.8 60.8 62.7	57.8 58.4 59.2 60.7 61.8 63.6	58.7 59.3 60.2 61.8 62.9	59.3 59.9 60.8 62.4 63.5	60.0 60.8 62.5 63.6	59.5 60.2 61.0 62.7 63.8	59.7 60.4 61.3 62.9 64.1	59.7 60.4 61.3 62.9 64.1	59.8 60.6 61.4 63.1	59.9 60.7 61.5 63.2	61,5	60.3 61.0 61.8 63.5	60.4 61.2 62.0 63.7	60.6 61.3 62.2 63.8	61.3 62.0 62.8 64.5
≥ 7000 ≥ 6000 ≥ 5000 ≥ 4500 ≥ 4500 ≥ 3500 ≥ 3500 ≥ 3500 ≥ 2500 ≥ 2000		57.6 58.3 59.8 60.8 62.7	59.2 60.7 61.8 63.6	59.3 60.2 61.8 62.9	59.9 60.8 62.4 63.5	60.0 60.8 62.5 63.6	60.2 61.0 62.7 63.8	61.3 62.9 64.1	61.3 62.9 64.1	60,6 61,4 63,1	60.7 61.5 63.2	61,5	61.0 61.8 63.5	61.2 62.0 63.7	61.3 62.2 63.8	62.8 64.5
≥ 7000 ≥ 6000 ≥ 5000 ≥ 4500 ≥ 4500 ≥ 3500 ≥ 3500 ≥ 3500 ≥ 2500 ≥ 2000		58.3 59.8 60.8 62.7	59.2 60.7 61.8 63.6	60.2	62.4	60.8 62.5 63.6	61.0	61.3	61.3	61,4	61.5	61,5	61.8	62.0	62.2	62.8
≥ 5000 ≥ 4500 ≥ 4000 ≥ 3500 ≥ 3000 ≥ 2500 ≥ 2000		59.8 60.8 62.7	61.8	62.9	63.5	63.6	62.7	64.1	64.1	63.1	63.2	61.5	63,5	63.7	63.8	64.5
≥ 5000 ≥ 4500 ≥ 4000 ≥ 3500 ≥ 3000 ≥ 2500 ≥ 2000		62.7	61.8	62.9	63.5	63.6	63.8	64.1	64.1	7 .	11 3	64.3	111	-		
≥ 4000 ≥ 3500 ≥ 3000 ≥ 2500 ≥ 2000		62.7	63.6							64.3	64.3	64.3	64.7	4. B	65.0	44.7
≥ 4000 ≥ 3500 ≥ 3000 ≥ 2500 ≥ 2000		62.7		64.8	65.4	65.5	65.7	44 0					0.40	64.8	2200	000
≥ 3000 ≥ 2500 ≥ 2000		54.7	4					66.0	66.0	66.2	66.3	66.3	66.6	66.8	67.0	67.7
≥ 3000 ≥ 2500 ≥ 2000			65.1	66.3	67.0	67.1	67.3	67.6	67.6	67.8	67.8	67.8	68.2	68.3	68.6	69.3
≥ 2000		67.4	68.5	69.8	70.6	70.7	70.8	71.2	71.2	71.3	71.4	71.4	71.8	71.9	72.3	72.9
≥ 2000		70.5	71.8	73.1	74.0	74.2	74.3	74.7	74.7	74.8	74.9	74.9	75.3	75.4	75.8	76.4
≥ 1800		73.7	74.9	76.3	77.2	77.3	77.5	77.8	77.8	78.0	78.1	78.1	78.4	78.6	78.9	79.6
		74.3	75.7	77.0	77.9	78.1	78.3	78.7	78.7	78.8	78.9	78.9	79.3	79.4	79.8	80.4
≥ 1500		77.8	79.3	80.7	81.7	81.9	82.2	82.6	82.6	82.8	82.8	82.8	83.2	83.3	83.7	84.3
≥ 1200		80.3	81.8	83.3	84.3	84.6	84.8	85.3	85.3	85.4	85.5	85.5	85.8	86.0	86.3	87.0
≥ 1000	. 1	81.8	83.6	85.3	86.6	86.9	87.3	87.7	87.7	87.9	88.0	88.0	88.3	88.5	88.8	89.5
≥ 900	• 1	82.3	84.2	85.8	87.3	87.7	88.1	88.5	88.5	88.8	88.8	88.8	89.2	89.3	89.7	90.3
≥ 900 ≥ 800	.1	83.3	85.3	87.2	88.6	89.0	89.6	90.0	90.0	90.3	90.3	90.3	90.7	90.8	91.2	91.8
> 700		83.4	85.6	87.6	89.0	89.5	90.3	90.7	90.7	90,9	91.0	91.0	91.4	91.6	91.9	92.6
≥ 700 ≥ 600	:1	83.8	86.1	88.2	89.4	90.1	90.9	91.3	91.3	91.6	91.7	91.7	92.1	92.3	92.6	93.3
	.1	84.4	86.8	89.3	90.	91.4	92.5	92.9	92.9	93.2	93.3	93.3	93.8	94.0		95.0
≥ 500 ≥ 400	- 1	84.7	87.1	89.7	91.1	91.8	93.0	93.6	93.6	94.2	94.3	94.3	94.8	95.0		96.0
	- 4	84.8	87.	89.9	91.4	92.1	93.5	94.1	94.1	94.8	95.0	95.0	95.7	95.8	96.2	96.8
≥ 300 ≥ 200	. 1	84.8	87.3	90.0	91.6	92.3	93.4	94.4	94.4	95.5	95.9	95.9	96.8	96.9	97.5	98.3
	• 4	84.8	87.2	90.0	91.6	92.3	93.8	94.4	94.4	95.8	96.2	96.2	97.1	97.2	98.1	The second second second
≥ 100 ≥ 0	• 1	84.8	97 3	90.0	91.6	92.3	93.8	94.4	94.4	95,8	96.2	96.2		97.4		100.0

1200 TOTAL NUMBER OF OBSERVATIONS

### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

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5703 CEILING VERSUS VISIBILITY JAN 78

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ %	≥ 0
NO CEILING		54.2	54.8	54.8	54.8	54.8	54,8	55.5	55.5	55.5	55,5	55.5	56.1	56.1	56.1	And Section 1882
≥ 20000		59.4	60.0	60.0	60.0	60.0	60.0	60.7	60.7	60,7	60,7	60.7	61.3	61.3	61.3	63.
≥ 18000		59.4	60.0	60.0	60.0	60.0	60.0	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3	63.
≥ 16000		59.4	60.0	60.0	60.0	60.0	90.0	60.7	60.1	60,7	60.1	60.7	01.3	01.3	61.3	63.
≥ 14000		59.4	60.0	60.0	60.0	60.0	60.0	60.7	60.7	60.7	60,7	60.7	61.3	61.3	61.3	63.
≥ 12000		61.9	62.6	62.6	62.6	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.9	63.9	63.9	65.
≥ 10000		63.2	63.9	63.9	63.9	63.9	63.9	64.5	64.5	64,5	64.5	64.5	65.2	65.2	65.2	67.
≥ 9000		63.2	63.9	63.9	63.9	63.9	63.9	64.5	64.5	64,5	64.5	64.5	65.2	65.2	65.2	67.
≥ 8000		65.8	66.5	66.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.7	67.7	67.7	69.
≥ 7000		66.5	67.1	67.1	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7	68.4	68.4	68.4	70.
≥ 6000		68.4	69.0	69.0	69.0	69.0	69.0	69.7	69.7	69.7	69.7	69.7	70.3	70.3	70.3	72.
≥ 5000		70.3	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.3	74.
≥ 4500		71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.9	72.9	72.9	74.
≥ 4000		71.6	72.3	72.3	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9	73.6	73.6	73.6	75.
≥ 3500		72.9	73.6	73.6	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.8	74.8	74.8	76.
≥ 3000		72.9	73.6	73.6	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.8	74.8	74.8	76.
≥ 2500		75.5	76.1	76.1	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8	77.4	77.4	77.4	79.
≥ 2000		76.8	78.1	78.1	78.1	78.1	78.1	78.7	78.7	78.7	78.7	78.7	79.4	79.4	79.4	81.
≥ 1800		76.8	78.1	78.1	78.1	78.1	78.1	78.7	78.7	78.7	78.7	78.7	79.4	79.4	79.4	81.
≥ 1500		79.4	81.3	81.3	81.3	81.3	81.3	81.9	81.9	81.9	81.9	81.9	82.6	82.6	82.6	84.
≥ 1200		81.3	83.9	83.9	83.9	83.9	83.9	84.5	84.5	84.5	84.5	84.5	85.2	85.2	85.2	87.
≥ 1200 ≥ 1000		81.3	83.9	83.9	83.9	83.9	82.9	84.5	84.5	84.5	84.5	84.5	85.2	85.2	85.2	87.
		81.9	84.8	84.5	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85. A	85.8	85.8	87.
≥ 900 ≥ 800		82.6	85.2	85.2	85.2	85.2	85.2	45.8	85.8	85.8	85.8	85.8	86.5	86.5	86.5	88.
		83.9	86.5	86.5	86.3	84 8	03.2	97.1	87.1	47.1	87.1	87.1	87.7	87.7	87.7	80.
≥ 700 ≥ 600			86.5	86.5		80.5	06.7	07.1	87	87.	87.1	87.1	87.7	87.7	87.7	89.
		83.9			86.5	86,5	86.5	01.01	0100	91.0		01.0	01 4	01.4	01.4	
≥ 500 > 400		85.8	88.4	89.0	89,0	89.0	89,7	91.0	71.0	21.0	91,0	71.0	71.0	21.0	71.0	93.
≥ 400		85,8	88.4	89.0	89.0	89.0	90.3	91.6	71.0	7170	71,0	41.0	76,5	72.3	72.5	74.
≥ 300		85.6	88.4	89.0	89,0	89.0	91.0	92.3	92.3	7293	45.3	45.3	72,7	45.4	73.0	95.
≥ 200		85.8	88,4	89.0	89.0	89.0	91.0	92.3	92.3	12.3	92.3	72.3	75.6	93.6	94.2	96.
≥ 100		85.8	88.4	89.0	89.0	89.0	91.0	92.3	92.3	45.4	92,9	92.9	75,5	95.5	96.1	98.
≥ 100 ≥ 0		85.8	88.4	89.0	89.0	89.0	91.0	92.3	92.3	92.9	92.9	92.9	95.5	95.5	96.1	100.

TOTAL NUMBER OF OBSERVATIONS

155

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### **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS 73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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5703 CEILING VERSUS VISIBILITY

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CEILING							VISI	BILITY (ST	ATUTE MIL	ES)'						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		50.3	51.0	51.0	51,0	51.0	51,6	51.6	51.0	51.6	51.6	51.6	53.6	53.6	54.2	54.2
≥ 18000 ≥ 16000		52.9	53.6	53.6	53.6	53.6	54.2	54.2	54.2	54.2	54.2	54.2	56.1	56.1	56.8	56.8
≥ 14000 ≥ 12000		52.9	53.6	53.6	53,6	53.6	54.2	54.2	54.2	54.2	54.2	54.2	56.8	56.1	56.8	57.4
≥ 10000 ≥ 9000		55.5 56.1	56.1	56.1	56.8	56.1	56.8	56.8	56.8	56.8	56.8	56.8	58.7	59.4	59.4	59.4
≥ 8000 ≥ 7000		56.8	57.4	57.4	57.4	57,4	58.1	58.1	58.1	58.1	58.1	59.4	60.0	61.3	61.9	61.9
≥ 6000 ≥ 5000		58.1	58.7	58.7	58.7	58.7	59.4	59.4	59.4	59.4	59,4	59.4	61.3	61.3	61.9	61.9
≥ 4500 ≥ 4000		60.7	61.3	61.3	61.3	61.3	61.9	61.9	61.9	61,9	61.9	61.9	63.9	63.9	64.5	65.8
≥ 3500 ≥ 3000		62.6	63.9	63.9	63.9	63.9	64.5	64.5	64.5	64.5	64,5	64.5	66.5	66.5	67.1	67.
≥ 2500 ≥ 2000		65.2	66.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	71.0	71.0	71.6	71.0
≥ 1800 ≥ 1500		68.4	70.3	70.3	70.3	70.3	71.0	71.0	71.0	71:0	71.0	71.0	72.9	72.9	73.6	73.0
≥ 1200 ≥ 1000		71.6	73.6	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8	76.8	76.8	77.4	77.4
≥ 900 ≥ 800		74.2	76.8	77.4	77.4	77.4	78.1	78.1	78.1	80.7	78,1	78.1	80.0	80.0	83.2	83.
≥ 700 ≥ 600		78.1 80.7	80.7	81.3	81.3	81.3	81.9	81.9	81.9	81,9	81,9	81.9	83,9	83.9	84.5	84.
≥ 500 ≥ 400		82.6	85.2	85.8	85,8	85.8	87.1	87.1	87.1	87,7	90.3	90.3	90.3	90.3	91.0	91.0
≥ 300 ≥ 200		83.2	85.8	87.1	88.4	88.4	89.7	90.3	90.3	90,3	91.0	91.0	93,6	93.6	94.2	94.
≥ 100 ≥ 0	Ŧ	83.2	85.8	87.1	88.4	88.4	89.7	90.3	90.3	91.6	92.9	92.9	95.5	95.5	96.8	96.8

155 TOTAL NUMBER OF OBSERVATIONS

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#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

YEARS

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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5703 CEILING VERSUS VISIBILITY JAN 78

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CEILING							VISI	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		41.3	41.9	42.6	43.2	43.2	44.5	44.5	44.5	44,5	44.5	44.5	45.8	46.5 50.3	46.5	48.4
≥ 18000 ≥ 16000		43.9	45.2	46.5	47,1	47.1	48.4	48.4	48.4	48.4	48.4	48.4	49.7	50.3	50.3	52.3
≥ 14000 ≥ 12000		43.9	45.2	46.5	47.1	47.1	48.4	48.4	48.4	49.7	48.4	48.4	51.0	50.3	50.3	52.3
≥ 10000 ≥ 9000		48.4	49.7	51.0	51.6	51.6	52.9	52.9	52.9	52,9	52.9	52.9	54.2	54.8	54.8	56.8
≥ 8000 ≥ 7000		49.0	50.3	51.6	52.3	52.3	53.6	53.6	54.0	53.6	53,6	54.8	54,8	55.5 56.8	55.5 56.8	57.4
≥ 6000 ≥ 5000		50.3	51.6	52.9	53.6	53.6	54.8	54.8	57.4	54.8	54.8	54.8	56.1	56.8	56.8	58.7
≥ 4500 ≥ 4000		53.6	54.8	56.1	56,8	56.8 56.8	58.1	58.1	58.1	58,1	58,1	58.1	59.4	60.0	60.0	61.9
≥ 3500 ≥ 3000		53.6	54.8	56.1	56.8	56.8	58.1	58.1	58.1	58,1	58,1	58.1	59.4	60.0	60.0	61.9
≥ 2500 ≥ 2000		60.0	61.9	63.2	63.9	100 May 40 May 1	65.8	67.1	67.1	65.8	67.1	67.1	67,1	67.7	69.0	69.7
≥ 1800 ≥ 1500		61.9	63.9	65.2 70.3	71.0	65.8	67.7	67.7	67.7	73.6	67,7	73.6	74.8	69.7 75.5	69.7	71.6
≥ 1200 ≥ 1000		67.7	70.3	72.3	72.9	72.9	75.5	75.5	75.5	75.5	75,5	75.5	76.8	77.4	77.4	79.4
≥ 900 ≥ 800		70.3	72.9	74.8	75.5	75.5	78.1	78.1	78.1	78.7	78.7	78.7	80.0	80.7	80.7	82.6
≥ 700 ≥ 600		72.9	75.5	77.4	78,1	78.1	80.7	80.7	80.7	81,3	81,3	81.3	82.6	83.2	83.2	85.2
≥ 500 ≥ 400		77.4	80.0	81.9	82.6	82.6	85.8	86.5	86.5	87.1	87,1	87.1	90.3	91.0	91.0	91.0
≥ 300 ≥ 200		79.4	81.9	83.9	84.5	84.5	89.0	89.7	89.7	91.0	91,0	91.0	93.6	94.2	94.2	96.1
≥ 100 ≥ 0		79.4	81.9	83.9	84,5	84.5	89.0	89.7	89.7	91,0	91.0	91.0	94.8	00 0	95.5	98.1

TOTAL NUMBER OF OBSERVATIONS

155

#### **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

73-77

09

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST.	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		33.6	34,2	35.5	36,1	36.1	36,1	36.1	36.1	36.1	36,1	36.1	36,8	36.8	37.4	37.4
≥ 20000		38.7	39.4	40.7	41.3	41.3	41.3	41.9	41.9	41.9	41.9	41.9	42,6	42.6	43.2	43.2
≥ 18000		38.7	39.4	40.7	41.3	41.3	41.3	41.9	41.9	41,9	41.9	41.9	42.6	42.6	43.2	43.2
≥ 16000		38.7	39.4	40.7	41.3	41.3	41.3	41.9	41.9	41.9	41,9	41.9	42,6	42.6	43.2	43.2
≥ 14000		40.0	40.7	41.9	42.6	42.6	42.6	43.2	43.2	43.2	43.2	43.2	43.9	43.9	44.5	44.5
≥ 12000		41.3	41.9	43.2	43.9	43.9	43.9	45.2	45.2	45.2	45.2	45.2	45.8	45.8	46.5	46.5
≥ 10000		44.5	45.8	47.1	47.7	47.7	47.7	49.0	49.0	49,0	49.0	49.0	49.7	49.7	50.3	50.3
≥ 9000		44.5	45.8	47.1	47.7	47.7	47.7	49.0	49.0	49.0	49.0	49.0	49.7	49.7	50.3	50.3
≥ 8000		49.7	51.0	52.3	52.9	52.9	52.9	54.2	54.2	54.2	54.2	54.2	54,8	54.8	55.5	55.5
≥ 7000		51.0	52.3	53.6	54.2	54.2	54.2	55.5	55.5	55,5	55.5	55.5	56.1	56.1	56.8	56.8
≥ 6000		51.6	52.9	54.2	54.8	54.8	54.8	56.1	56.1	56.1	56.1	56.1	56.8	56.8	57.4	57.4
≥ 5000		52.3	53.6	54.8	55.5	55.5	55.5	56.8	56.8	56,8	56.8	56.8	57.4	57.4	58.1	58.1
≥ 4500		53.6	54.8	56.1	56.8	56.8	56.8	58.1	58.1	58,1	58.1	58.1	58.7	58.7	59.4	59.4
≥ 4000		54.2	55.5	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	59.4	59.4	60.0	60.0
≥ 3500		56.1	57.4	58.7	59.4	59.4	59.4	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.9	61.9
≥ 3000		58.1	59.4	60.7	61.9	61.9	61.9	63.2	63.2	63.2	63.2	63.2	63.9	63.9	64.5	64.5
≥ 2500	-	60.7	61.9	63.2	64.5	64.5	64.5	65.8	65.8	65.8	65.8	65.8	66.5	66.5	67.1	67.1
≥ 2000		64.5	65.8	67.1	68.4	68.4	69.0	70.3	70.3	70.3	70.3	70.3	71.0	71.0	71.6	71.6
		64.5	65.8	67.1	68.4	68.4	69.0	70.3	70.3	70.3	70.3	70.3	71.0	71.0	71.6	71.6
≥ 1800 ≥ 1500		65.2	66.5	68.4	69.7	69.7	70.3	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.9	72.9
		66.5	68.4	70.3	72.3	72.3	72.9	74.2	74.2	74.8	74.8	74.8	75.5	75.5	76.1	76.1
≥ 1200 ≥ 1000		67.1	69.0	71.4	75.5	75.5	76.1	78.1	78.1	78.7	78.7	78.7	79.4	79.4	80.0	80.0
		67.7	69.7	72.3	76.1	76.1	76.8	78.7	78.7	79.4	79.4	79.4	80.0	80.0	80.7	80.7
≥ 900 ≥ 800		69.7	71.6	74.2	78.1	78.1	78.7	80.7	80.7	81.0	82.6	82.6	83.2	83.2	83.9	83.9
		70.3	72.9	76.1	80.0	80.0	80.7	82.6	82.6	83.9	84.5	84.5	85.2	85.2	85.8	85.8
≥ 700 ≥ 600			73.6		80.7	80.7	81.9	83.9	83.9	85.2	85.8	85.8	86.5	86.5	87.7	87.7
				76.8	00.1	00.7	-	94 8	84 8	AR. B	47 8	84.6	87.1	87.1	88.4	88.4
≥ 500 ≥ 400		71.0	74.2	77.4	01,3	83.2	82.0	88 4	88.4	40.7	90.3	90.3	91.0	91.0	92.9	92.9
		71.0	74.2	77.4	82.6	03.4	85.2	88.4		99.9	92 9	92.0	93.4	92.4	95.5	A-12
≥ 300	100	71.g	74.2	1109	03,9	04.3	86,5	07.7	89.7	92.0	04 2	94.9	94.8	94.8	96.8	95.5
≥ 200		71.0	74.2	77.4	04.3	85.2	87.1	90.3	90.3	92.0	04 2	04.5			-	98.1
≥ 100 ≥ 0		71.0	74.2	77.4	54.3	85.2	87.1	90.3	90.3	92.0	94.2	24.5	95.5	96.1	98.1	
≥ 0		71.0	74.2	77.4	84.3	85.2	87.1	90.3	90.3	92,9	94.2	94.2	95,5	96.1	70.7	100.0

155 TOTAL NUMBER OF OBSERVATIONS

#### **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
O CEILING ≥ 20000		37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
≥ 18000 ≥ 16000		47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 14000 ≥ 12000		47.7	47.7	47.7	47.7	47.7	47.7	51.0	47.7	51.0	47.7	51.0	47.7	47.7 51.0	47.7	47.7
≥ 10000 ≥ 9000		54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2 54.8	54.2	54.2	54.2	54.2 54.8	54.8	54.2 54.8
≥ 8000 ≥ 7000		58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58,7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 6000 ≥ 5000		61.3	60.0	60.0	61.3	61.3	60.0	60.0	61.3	60:0	61.3	61.3	60.0	61.3	60.0	60.0
≥ 4500 ≥ 4000		64.5	64.5	61.3	61,3	61.3	61,3	61.3	61.3	64,5	64.5	61.3	64.5	61.3	61.3	4
≥ 3500 ≥ 3000		65.8	65.8	67.7	65,8	65.8	65.8	67.7	67.7	67.7	67.7	67.7	67.7	67.7	65.8	67.7
≥ 2500 ≥ 2000		71.0 76.8	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71,0	71.0	71.0	71.0	71.0	77.4
≥ 1800 ≥ 1500		78 · 1	78.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7 83.9	78.7	78.7
≥ 1200 ≥ 1000		84.5	84.5	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	88.4	88.4
≥ 900 ≥ 800		87.1	91.0	91.6	92.3	89.0 92.3	92.3	92.9	92.9	92.9	92,9	92.9	92.9	92.9	92.9	92.9
≥ 700 ≥ 600		90.3	91.6	92.3	93.6	93.6	93.6	94.2	94.2	94.2	94.2	94.2	96,8	96.8	94.2	
≥ 500 ≥ 400		90.3	92.9	94.2	95.5	95.5	95.5	96.8	96.8	98.1	96.8	96.8	96.8	98.1	98.1	98.1
≥ 300 ≥ 200		91.0	93.6	94.8	96.8	97.4	97.4	99.4		100:0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		91.0	93.6		96.8	97.4	97.4	99.4	20 mm	and the state of the state of				100.0		THE RESERVE OF THE PARTY OF THE

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS 155

0

#### **CEILING VERSUS VISIBILITY**

12925 CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST.	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43,9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 20000		52.9	52.9	52.9	52.9	52,9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 18000		52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52 9	52,9	52.9	52.9	52.9	52.9	52.9
≥ 16000		53.6	53.6	53.6	53,6	53.6	53.6	53.6	53.6	53,6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 14000		54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54,2	54.2	54.2	54,2	54.2	54.2	54.2
≥ 12000		54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54,8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 10000		59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59 4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 9000		60.7	60.7	60.7	60.7	60.7	60.7	60,7	60.1	60,7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 8000		63.9	63.9	63.9	63,9	63.9	63.9	63.9	63.9	63,9	63.9	03.9	63.9	63.9	63.9	63.9
≥ 7000		65.2	65.2	65.2	65.2	65,2	65.2	65.2	65.2	65.2	65,2	05.2	65.2	05.2	65.2	65.2
≥ 6000 ≥ 5000		65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.0	65.8	65.8	67.1	65.8	65.8
		67.1	67.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	47 7	67.1	67.1	-	67.1	67.1
≥ 4500 ≥ 4000		67.7		69.0	67.7	69.0	69.0	69.0	67.7	69.0	69.0	69.0	69.0	69.0	69.0	67.7
		71.6	71.6	71.6	71.6	71 6	-	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 3500 ≥ 3000		74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
		78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2500 ≥ 2000		80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1800		81.9	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1500		84.5	84.5	84.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1200		89.0	89.0	89.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1000		90.3	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 900		91.0	91.0	91.0	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 800		91.6	91.6	92.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 700		91.6	92.3	92.9	95.5	95.5	95.5	95.5	95.5	95.5	95,5	95.5	95,5	95.5	95.5	95.5
≥ 600		92.9	93.6	94.2	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 500		92.9	94.2	94.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 400		92.9	94.2	94.8	97.4	97.4	97.4	97.4	97.4	98,1	98,1	98,1	98.1	98.1	98.1	98.1
≥ 300		92.9	94,2	94.8	98.1	98.1	98.7	98.7	98.7	100,0	100,0	100.0	100.0	100.0	100.0	100.0
≥ 200		92.9	94,2	94.8	98,1	98.1	98.7	98.7	98.7		-		100.0			
≥ 100		92.9	94.2	94.0	98.1	98.1	98.7	98.7		100.0						
≥ 0		92.9	94.2	94.8	98.1	98.1	98.7	98.7	98.7	100,0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

0 5703 CEILING VERSUS VISIBILITY

#### **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

73-77

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	~ ≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING	BE H	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.
≥ 20000		56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.
≥ 18000		56.1	56.1	56.1	56.1	56.1	56,1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56
≥ 16000		56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56 98	56.8	56.8	56.8	56.8	56.8	56
≥ 14000		57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57
≥ 12000		58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58,1	58.1	58.1	58.1	58.1	58.1	58
≥ 10000		62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62
≥ 9000		63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63,2	63.2	63.2	63.2	63.2	63.2	63
≥ 8000		68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68,4	68.4	68.4	68.4	68.4	68.4	68
≥ 7000		70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70
≥ 6000		70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70
≥ 5000		72.3	72.3	72.3	72,3	72.3	72,3	72.3	72,3	72.3	72.3	72.3	72,3	72.3	72.3	72
≥ 4500		72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72
≥ 4000		74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74
≥ 3500		76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76
≥ 3000		76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76
≥ 2500		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80
≥ 2000		83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	53.2	83.2	83.2	83.2	83.2	83.2	83
≥ 1800		83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83,2	83.2	83.2	83.2	83.2	83.2	83
≥ 1500		84.5	84.5	84.5	84.5	85.2	85.2	85.2	85.2	65.2	85,2	85.2	85.2	85.2	85.2	85
≥ 1200		87.7	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	83.0	89.0	89
≥ 1000		89.0	89.7	89.7	89,7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90
≥ 900		89.0	89.7	89.7	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91
≥ 800		89.0	89.7	89.7	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91
≥ 700		89.0	89.7	89.7	92.3	92.9	92.9	92.9	92.9	92,9	92.9	92.9	92.9	92.9	92.9	92
≥ 600		89.0	89.7	91.0	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94
≥ 500		89.7	90.3	91.6	94.8	95.5	95.5	95.5	95.5	95.5	95,5	95+5	95,5	95.5	95.5	95
≥ 400		89.7	91.0	92.3	95.5	96.1	96.8	96.8	96.8	96 . 8	97.4	97.4	97.4	97.4	97.4	97
≥ 300		89.7	91.0	92.9	96.1	96.8	97.4	97.4	97.4	97,4	98.1	98.1	98,1	98.1	98.1	98
≥ 200		89.7	91.0	92.9	96.1	96.8	98.1	98.1	98.1	98.7	99.4	99.4	99,4	99.4	99.4	99
≥ 100		89.7	91.0	92.9	96.1	96.8	98.1	98.1	98.1	98,7	99.4	99.4	100.0	100.0	100.0	100
≥ 0	Digital (	89.7	91.0	92.9	96.1	96.8	98.1	98.1	98.1	98,7	99.4	99.4	100.0	100.0	100.0	100

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN

#### **CEILING VERSUS VISIBILITY**

CHASE FIELD, TEXAS

DIRECTOR AND T

73-77

(FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF OCCURRENCE

21

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5703 CEILING VERSUS VISIBILITY JAN 78

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CEILING							VISI	BILITY (STA	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		58.7	59.4	59.4	59.4	59.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000		62.6	63.2	63.2	63.2	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 18000		62.6	63.2	63.2	63.2	63.2	63.2	63.9	63.9	63,9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 16000		62.6	63.2	63.2	63.2	63.2	63.2	63.9	63.9	63,9	63.9	63,9	63.9	63.9	63.9	63.9
≥ 14000		63.2	63.9	63.9	63.9	63.9	63.9	64.5	64.5	64.5	64.5	64,5	64.5	64.5	64.5	64 . !
≥ 12000		63.2	63.9	63.9	63.9	63.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 10000		64.5	65.2	65.2	65.2	65.2	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.
≥ 9000		65.2	65.8	65.8	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.
≥ 8000		67.1	67.7	67.7	67.7	67.7	67.7	68.4	68.4	68 . 4	68.4	68.4	68,4	68.4	68.4	68.
≥ 7000		68.4	69.0	69.7	69.7	69.7	69.7	70.3	70.3	70.3	70,3	70.3	70.3	70.3	70.3	70.3
≥ 6000		69.7	70.3	71.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 5000		70.3	71.0	71.6	71.6	71.6	71.6	72.3	72,3	72,3	72.3	72.3	72,3	72.3	72.3	72.
≥ 4500		71.0	71.6	72.3	72,3	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.
≥ 4000		72.9	73.6	74.2	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 3500		74.2	74.8	75.5	75.5	75.5	75.5	76.1	76.1	76,1	76.1	76.1	76.1	76.1	76.1	76.
≥ 3000		76.1	76.8	77.4	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	76.1	78.
≥ 2500		78.7	79.4	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80,7	80.7	80.7	80.7	80.
≥ 2000		80.7	81.3	81.9	81.9	81.9	81.9	82.5	82.6	82,6	82,6	82.6	82.6	82.6	82.6	82.
≥ 1800		80.7	81.3	81.9	81.9	81.9	81.9	85.6	82.6	62.6	82.6	82.6	82.6	82.6	82.6	82.
≥ 1500		84.5	85.2	85.8	85.8	85.8	85.8	86.5	86.5	80.5	86.5	86.5	86.5	86.5	86.5	86.
≥ 1200		86.5	87.1	87.7	87,7	87.7	87.7	88.4	88.4	88.4	88,4	88,4	88.4	88.4	88.4	88.4
≥ 1000		87.1	87.7	88.4	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 900		87.7	88.4	89.0	89.0	89.0	89.0	89.7	89.7	89,7	89,7	89.7	89.7	89.7	89.7	89.
≥ 800		88.4	89.0	89.7	89.7	89.7	89.7	90.3	90.3	90,3	90.3	90,3	90.3	90.3	90.3	90.
≥ 700		89.7	90.3	91.0	91.0	91.6	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.
≥ 600		90.3	91.0	91.6	91.6	92.3	92.9	93.6	93.6	93,6	93.6	93.6	93.6	and the same of th	93.6	93.
≥ 500		90.3	91.0		91.6	92.3	92.9	93,6	93.6	93,6	93.6	93.6	93.6		93.6	93.
≥ 400		90.3	91.0	92.3	92.3	92.9	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.
≥ 300 ≥ 200		91.6	92.3	93.6	93.6	94.2	94.8	95.5	95.5	95,5	95,5	95.5	96.1	96.1	96.1	96.
≥ 200		91.6	92.3	93.6	94.2	94.8	95.5	96.1	96.1	96.1	96,1	96.1	97.4	97.4	97.4	97.
≥ 100		91.6	92.3	93.6	94.2	94.8	96.1	96.8	96.8	96.8	96.8	96.8	99.4	- 1	99.4	99.4
5 0		91.6	92.3	93.6	94.2	94.8	96.1	96.8	96.8	96.8	96.8	96.8	99.4	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS

#### **CEILING VERSUS VISIBILITY**

12925

CHASE FIELD, TEXAS

73-77

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

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5703 CEILING VERSUS VISIBILITY JAN 78

CEILING							VISI	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1¼	≥ 1	≥ ¾	≥ %	≥ 1/2	≥ 5/16	≥ ¼	≥ 0
NO CEILING		46.2	46.6	46.9	47.0	47.0	47.3	47.4	47.4	47,4	47.4	47.4	48.0	49.1	48.2	48.
≥ 20000		51.7	52.2	52.5	52.7	52.7	52.9	53.2	53.2	53.2	53.2	53.2	53.7	53.8	54.0	54.
≥ 18000		51.7	52.2	52.5	52.7	52.7	52.9	53.2	53.2	53.2	53.2	53.2	53.7	53.8	54.0	54.
≥ 16000		51.9	52.3	52.7	52.8	52.8	53.1	53.3	53.3	53.3	53.3	53.3	53.9	54.0	54.1	54.
≥ 14000		52.3	52.8	53.2	53.3	53.3	53.6	53.8	53.6	53.8	53.8	53.8	54.4	54.4	54.6	55.
≥ 12000		53.6	54.1	54.4	54.6	54.6	54.8	55.2	55.2	55 . 2	55.2	55.2	55.7	55.8	56.0	56.
≥ 10000		56.5	57.1	57.4	57.6	57.6	57.8	58.2	58.2	58.2	58.2	58.2	58.7	58.8	59.0	59.
≥ 9000		57.1	57.7	58.0	58.2	58.2	58.4	58.7	58.7	58.7	58.7	58.7	59.3	59.4	59.5	60.
≥ 8000		59.9	60.5	60.8	61.0	61.0	61.2	61.5	61.5	61.5	61.5	61.5	62.1	62.2	62.3	62.
≥ 7000		61.2	61.8	62.2	62.3	62.3	62.6	62.9	62.9	62.9	62.9	62.9	63.5	63.6	63.7	64.
≥ 6000		61.8	62.3	62.7	62.9	62.9	63.2	63.5	63.5	63.5	63.5	63.5	64.0	64.1	64.3	64.
≥ 5000		63.3	63.9	64.3	64.4	64.4	64.7	65.0	65.0	65.0	65.0	65.0	65.6	65.7	65.8	66.
≥ 4500		64.0	64.5	64.9	65.1	65.1	65.3	65.7	65.7	65.7	65.7	65.7	66.2	66.3	66.5	66.
≥ 4000		65.2	65.8	66.2	66.4	66.4	66.6	66.9	56.9	66.9	66.9	66.9	67.5	67.6	67.7	68.
≥ 3500		66.6	67.3	67.7	67.8	67.8	68.1	68.4	68.4	08.4	68,4	68.4	69.0	69.0	69.2	69.
≥ 3000		68.2	69.0	69.4	69.6	69.6	69.8	70.2	70.2	70.2	70.2	70.2	70.7	70.8	71.0	71.
≥ 2500		71.2	71.9	72.3	72.7	72.7	73.0	73.3	73.3	73,3	73.3	73.3	73.9	74.0	74.1	74.
≥ 2000		73.8	74.7	75.1	75.5	75.5	75.9	76.2	70.2	76.2	76.2	76.2	76.8	76.9	77.0	77.
≥ 1800		74.4	75.3	75.7	76.1	76.1	76.5	76.9	76.9	76.9	76,9	76.9	77.4	77.5	77.7	78.
≥ 1500		77.1	78.2	78.9	79.4	79.4	79.9	80.2	80.2	80.2	80.2	80.2	80.8	80.9	81.1	81.
≥ 1200		79.4	80.7	81.4	81.9	82.0	82.5	82.8	82.8	82.9	82.9	82.9	83.5	63.6	83.7	84 .
≥ 1000		80.6	82.0	82.8	83.6	83.7	84.2	84.6	84.6	84.8	84,8	84.8	85.3	85.4	85.6	86.
≥ 900		81.1	82.6	83.4	84.4	84.4	84.9	85.3	85.3	85,5	85,5	85.5	86.1	86.1	86.3	86.
≥ 800		82.5	84.0	84.9	86.1	86.1	86.6	87.1	87.1	87.3	87.4	87.4	88.0	88.1	88.2	88.
≥ 700		83.2	84.9	85.9	87.3	87.4	88.0	88.5	88.5	88.7	88.8	88.8	89.4	89.4	89.6	90.
≥ 600		84.3	86.1	87.3	88.8	89.0	89.7	90.2	90.2	90.5	90.7	90.7	91.2	91.3	91.5	92.
≥ 500		85.0	87.0	88.3	89.8	89.9	90.8	91.5	91.5	91,9	92.0	92.0	92.6	92.7	92.9	93.
≥ 400		85.3	87.4	88.9	90.6	90.8	91.9	92.9	92.9	93.4	93.6	93.6	94.3	94.4	94.7	95.
≥ 300		85.6	87.7	89.2	91,3	91.6	93.1	94.0	94.0	94.8	95.1	95.1	96.0	96.1	96.5	96.
≥ 200		85.6	87.7	89.2	91.5	91.8	93.3	94.4	94.4	95.2	95.6	95.6	96.7	96.8	97.2	97.
≥ 100		85.6	87.7	89.2	91.5	91.8	93.4	94.4	94.4	95.5	95.9	95.9	97.6	97.7	98.2	99.
≥ 0		85.6	87.7	89.2	91.5	91.8	93.4	94.4	94.4	95.5	95.9	95.9	97.6	97.8	98.4	100.

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

#### **CEILING VERSUS VISIBILITY**

2

CHASE FIELD, TEXAS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

5703 CEILING VERSUS VISIBILITY

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING		44.2	45.1	46.0	46.7	46.8	47.3	47.5	47.5	47.8	47,8	47.8	48.0	48.1	48.2	48.
≥ 20000		50.8	51.9	52.9	53.7	53.8	54.4	54.6	54.0	54,9	55,0	55.0	55,2	55.3	55.4	55.
≥ 18000		51.0	52.1	53.1	53.8	54.0	54.6	54.8	54.0	55.1	55,1	55.1	55.4	55.4	55.6	55.
≥ 16000		51.1	52.1	53.2	53.9	54.1	54.7	54.9	54.9	22.1	55,2	55.2	55.5	55.5	55.7	56.
≥ 14000		51.6	52.7	53.7	54.5	54.6	55.2	55.4	55.4	25.7	55.8	55.8	50.0	56.1	56.2	56.
≥ 12000		52.7	53.8	54.9	55.7	55.8	56.4	56.6	56.6	56.9	57,0	57.0	57.2	57.3	57.4	57.
≥ 10000		54.7	55.9	57.0	57.8	58.0	58.6	58.8	58.9	24.5	59,2	59.2	59,5	59.6	59.7	60.
≥ 9000		54.9	56.1	57.2	58.0	58.2	58.8	59.1	59.1	54.4	59,5	59.5	59,7	59.8	59.9	60.
≥ 8000		56.6	57.8	59.0	59.8	60.0	60.6		60.9	01.2	61.3	61.3	61.5	61.6	61.8	62.
≥ 7000		57.5	58,7	59.9	60.7	60.9	61.6	61.8	61.6	02.1	62.2	02.3	62.5	62.6	62.7	63.
≥ 6000		57.9	59.1	60.3	61.2		62.0	62.2	62.3	02.6	62,7	02.7	62.9	63.0	63.1	63.
≥ 5000		58.9	60.2	61.4	62.3	62.5	63.1	63.4	03.4	03.7	63,6	03.5	04.1	04.2	04.3	64.
≥ 4500		59.5	60.7	62.0	62.9	63.1	63.7	64.0	64.0	04.3	64.4	04.4	64,6	04.7	64.9	65.
≥ 4000		60.4	61.7	63.0	63.9	64.1	64.7	65.0	65.0	0343	65.4	03.4	65.0	05.7	65.9	66.
≥ 3500		61.8	63.0	64.4	65,3	65.5	66.1	66.4	66.4	00.7	66.8	00.8	67.0	67.1	67.3	67.
≥ 3000		64.4	65.8	67.1	68.0		68.9	69.1	69.6	07:5	67.0	04.0	67.8	69.9	70.1	70 •
≥ 2500		68.1	69.6	71.0	72.0	72.2	72.9	73.1	73.2	13,3	73,0	73.0	73,6	73.9	74.1	74.
≥ 2000		71.8	73.4	74.9	75.9	76.2	76.9	77.2	77.2	11195	77.0	77.0	77.9	77.9	76.1	78.
≥ 1800		72.6	74.3	75.8	76,	77.1	77.8	78,1	78.1	10.4	78.5	76.5	70.8	78.9	79.0	79.
≥ 1500		76.2	78.0	79.7	80.8	81.0	81.8	82.2	82.2	0215	82.0	82.0	95.4	83.0	83.1	83.
≥ 1200		78.3	80.3	82.0	83,2	83.4	84.3	84.6	84.0	03.0	85,1	05.1	67.4	85.5	85.6	85.
≥ 1000	• 0	80.2	82.4	84.2	85.5	85.8	86.7	87.1	87.1	67,5	87.7	07.7	97.9	88.0	88.2	88.
≥ 900	• 0	81.0	83.2	85.2	86.5	86.8	87.8	80.1	88.6	0010	88,7	88.7	87.0	04.1	87.2	89.
≥ 800	• 0	82.4	84.7	86.8	88,3	88.7	89.6	90.0	90.1	9005	90,7	90.7	41.0	71.1	91.2	91.
≥ 700	• 0	83.0	85.5	87.7	89,3	89.7	90.7	91.2	41.5	41.7	91.0	41.8	92.1	45. S	92.4	92.
≥ 600	• 0	83.6	86.2	88.6	90,3	90.7	91.9	92,4	92,4	72,9	93.0	93.1	93,3	73.5	93.6	94.
≥ 500	• 0	84.2	87.0	89.5	91.3	91.8	93.1	93.7	73.1	94.3	74.3	7413	74.8	74.9	75.1	95.
≥ 400	• 0	84.4	87.3	90.0	91.9	92.3	93.9	94,7	94.1	7714	95.7	7507	90.1	70.2	96.4	96.
≥ 300	• 0	84.5	87.5	90.3	92.3	92.8	74.5	77.4	75.5	96.4	96.8	70.0	27.2	77.4	27.0	97.
≥ 200	•0	84.6	87.5	90.3	92.4	92.9	94.7	95.8	75.0	70.9	97.4	7704	77.9	78.1	70.4	98.
≥ 100 ≥ 0	.0	84.6	87.5	90.3	92,5	92.9	94.8		95.8	97.0	97.6	97.6	40.0	98.6	98.9	
≥ 0	• 0	84.6	87.5	90.3	92.5	92.9	94.8	95.8	95.8	97,0	97.6	97.6	98.3	98.7	99.1	100.

TOTAL NUMBER OF OBSERVATIONS

14608

#### SKY COVER

12925 CHASE FIELD. TEXAS

73-77

JAN

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SKY COVER JAN 68

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	FREQUENC	OF TENTHS	OF TOTAL	SKY COVER				MEAN	TOTAL
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	TENTHS OF SKY COVER	NO. OF OBS.
JAN	00	30:3	.6	4.5	:6	2.6	.6	1.9	3.9	5.2	3.2	46.5	6.0	15
	03	24:5	5.8	3.2	5.2	1:3	1.3		3.2	2.6	2.6	50.3	6.1	15
	06	23.9	1.9	4.5	1.9	1:3	1.3	.6	2.6	7.1	2,6	52.3	6.5	15
	09	12:3	2.6	5.8	4:5	2.6	1.9		5.2	3.2	9.0	52.9	7.2	15
	12	11:0	6.5	5.2	5.8	3.2	1.9		6.5	7.7	8,4	43.9	6.8	15
	15	11:0	4.5	6.5	7.7	3.9	3.2	3.9	3.9	9.7	6,5	39.4	6,5	15
	18	14:2	4.5	4.5	5.2	3.9	3.2	3.9	8.4	5.2	16,1	31:0	6.4	15
	21	26.5	3.9	7.1	3.2	4.5	1.9		3.9	4.5	6,5	38.1	5.6	15
TOT	ALS	19.2	3.8	5.2	4:3	2.9	1.9	1.3	4.7	5.7	6.9	44.3	6.4	124

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SKY COVER

12925 CHASE FIELD, TEXAS

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5704 SKY COVEP JAN

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	E FREQUENC	Y OF TENTHS	OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	,	10	SKY COVER	NO. OF OBS.
FER	00	39.0	5.4	4.3	4:3	1:4		1.4	2.1	5.0	3,5	32.6	4.5	14
	03	39:0	2.1	2.8	2:1	2.1	.7	2.8	2.8	2.1	5,7	37.6	5.1	14
	06	31.9	2.8	4.3	2.8	2.1	2.8	2.1	1.4	3.5	8.5	37.6	5.5	14
	09	20.6	7.1	5.0	3.5	2.8	1.4	2.1	5,0	7.1	9,2	36.2	6.0	14
	12	18.4	7.8	5.7	2:1	5.0	2.8	2.8	0.4	9.2	8,5	31.2	5,6	14
	15	19:1	6.4	4.3	6.4	2.1	3.5	5.0	9,9	12:1	8.5	22:7	5.6	14
	18	17.7	17.0	8.5	3.5	2.1	1.4	5.0	4.3	9:2	8,5	22:7	5.0	14
	21	37.6	8.5	6.4	2:1	4:3	1.4	2.1	3,5	3.5	2.8	27.7	4.2	14
101	TALS	27.9	7.3	5.2	3.4	2.7	1.8	2.9	4.4	6.5	6,9	31:0	5.2	112

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#### SKY COVER

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# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	E FREQUENC	Y OF TENTHS	OF TOTAL	SKY COVER				MEAN	TOTAL
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	TENTHS OF SKY COVER	NO. OF OBS.
MAR	00	18:1	2.6	4.5	5.2	1.9	1.3	.6	2.6	7.1	3.2	52.9	6.8	15
	03	18:1	1.9	3.9	:6	2.6	1.3	1.9	2.6	3.9	3.9	59.4	7.2	15
	06	15:5	2.6	4.5	.6	3.2	1.9	1.3	1.9	7:1	5,8	55.5	7.2	155
	09	11:0	4.5			3.2	1.3	1.3	3,2	5.8	13,5	56.1	7.8	15
	12	9:0	3.2	1.9	4.5	4.5	1.9	5.2	7.1	7.1	15.5	40.0	7.3	155
	15	9.7	5.2	4.5	1:9	1.9	4.5	1.3	11.0	11:0	16.8	31.6	6.9	155
	18	12:3	3.9	3.2	5.2	4.5	3.9	4.5	6,5	12.9	15.5	27.7	6.6	155
	21	16.8	3.9	3.9	5.8	5.8	2.6	3.9	4,5	5.8	5.2	41.9	6.3	155
_														
tot	ALS	13.8	3.5	3.3	3.0	3.5	2.3	2.5	5.0	7.6	9,9	45.6	7.0	1240

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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MONTH	HOURS				PERCENTAG	E FREQUENC	Y OF TENTH	S OF TOTAL	SKY COVER				MEAN	TOTAL
MONIH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	TENTHS OF SKY COVER	NO. OF OBS.
APR	00	26.7	3.3	6.0	1.3	2.7	.7	.7	2.7	7.3	6.0	42.7	6.0	150
	03	20.7	3.3	8.0	3.3	2.7	1.3	.7	2.0	5:3	6.0	46.7	6.3	150
	06	12:7	3.3	2.0	2.7	4.7	1.3	1.3	6.0	4.7	10.7	50.7	7,3	150
	09	14:7	.7	3.3	2:0	2.0	2.7	.7	6,0	8.7	16.0	43.3	7.3	150
	12	13.3	2.0	4.0	1.3	3.3	7.3	3.3	6.7	9,3	16.7	32.7	6.8	150
	15	12:0	4.0	5.3	6.0	2.7	5.3	6.0	3,3	11.3	12.0	32:0	6,5	150
	18	16.0	5.3	6.0	3.3	4.7	4.0	2.7	8.0	7.3	15,3	27.3	6.1	150
	21	24.0	3.3	4.7	3.3	1.3	1.3	2.0	6,0	6:0	6,7	41.3	6,1	150
TOT	ALS	17.5	3.2	4.9	2:9	3.0	3.0	2.2	5.1	7.5	11,2	39.6	6.6	1200

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5704 SKY COVER JAN 68

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	FREQUENC	Y OF TENTHS	OF TOTAL	SKY COVER				MEAN	TOTAL
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	TENTHS OF SKY COVER	NO. OF OBS.
MAY	00	19:4	9.7	9.0	1.9	1:9	1.3	2.6	7.1	5.8	9.0	32.3	5.6	15
	03	16.8	4.5	5.2	1.9	4.5	3.2	3.9	6.5	11.6	8.4	33.5	6.3	155
	06	8:4	4.5	.6	4:5	6.5		3.2	9.0	12.3	14.2	36.8	7.2	15
	09	10:3	4.5	1.9	2.6	1.3	3.9	3.9	9.7	12:9	16.1	32.9	7.1	15
	12	7:1	2.6	3.2	4:5	2.6	5.8	5.8	11.0	13.5	10.1	27.7	7.0	15
	15	5.2	2.6	3.2	4:5	5.8	4.5	9.0	14.8	12.9	9.7	27.7	6.9	15
	18	11:6	5.2	5.2	6.5	7.1	4.5	3.9	7.7	11.6	15.5	21:3	6.1	15
	21	14:8	7.7	7.7	8.4	2.6	2.6	7.1	6.5	7.7	9.7	25.2	5.6	15
	*													
TOT	ALS	11:7	5.2	4.5	4:4	4.0	3.2	4.9	9.0	11:0	12,3	29.7	6.5	124

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAC	E FREQUEN	CY OF TENTH	IS OF TOTAL	SKY COVER				MEAN	TOTAL
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	TENTHS OF SKY COVER	NO. OF OBS.
JUN-	00	34:0	8.7	6.7	2.0	3.3	3.3	2.7	7.3	10.7	6.0	15.3	4.2	150
	03	28.7	4.7	10.0	7.3	6.0	2.7	3.3	7.3	11.3	6.0	12.7	4.3	150
	06	9:3	6.0	10.7	10:0	5.3	3.3	4.7	5,3	18.0	14.0	13.3	5.6	150
	09	4:0	2.7	3.3	4:0	4:0	3.3	10.0	19.3	24:0	12.7	12.7	6.8	150
	12	4.7	.7	2.0	2.7	5.3	6.0	8.7	20.0	27.3	9,3	13.3	6.9	150
	15	2:0	2.7	2:0	2:0	10.7	11.3	12.0	18.7	13.3	12.7	12.7	6.6	150
	18	10:0	6.0	8.0	14:0	12:0	8.0	5.3	10.0	12.0	5.3	9:3	4.9	150
	21	29.3	10.7	14.0	2:7	5.3	3.3	4.7	6,0	6:7	3,3	14:0	3.8	150
тот	ALS	15.3	5.3	7.1	5.6	6.5	5.2	6.4	11.7	15.4	8.7	12.9	5.4	1200

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# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAC	E FREQUENC	CY OF TENTHS	OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL
MONIH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	NO. OF OBS.
JUC	00	43.2	9.0	9.7	8:4	6.5	1.3	3.2	3.9	2:6	3.9	8.4	2.7	15
	03	40:0	7.7	12:3	7.1	3.9	1.9	3.9	2.9	7:7	3.9	9:0	3.1	15
	06	9:0	9.7	8.4	14.2	10.3	8.4	4.5	6.5	10.3	11.0	7:7	4.8	15
	09		3.9	3.2	9:0	5.2	7.1	5.8	17.4	21.9	14.8	11:6	6.8	15
	12	:6	3.9	6.5	6.5	3.9	11.0	7.7	16,8	18.7	13.5	11:0	6.5	15
	15	1:3	1.9	5.8	6.5	7.7	10.3	7.1	13.5	15.5	17.4	12.9	6.6	15
	18	9:0	9.7	11.6	7.7	8.4	5.2	3.9	11.0	9:0	10.3	14.2	5,2	15
	21	27.7	12.9	9:0	7:7	7.7	3.2	3.2	5,2	9:0	5,2	9:0	3.7	15
			,											
тот	TALS	16:4	7.3	8.3	8.4	6.7	6.1	4.9	9,6	11.8	10.0	10:5	4.9	124

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAG	E FREQUENC	Y OF TENTHS	OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL NO. OF
MONIH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS.
AUG	00	32.3	11.6	11:0	9.0	7.1	5.8	1.9	5,2	5.2	3.2	7:7	3.1	15
	03	28.4	12.9	13.5	5.8	7.7	4.5	3.9	6.5	6.5	3.2	7:1	3.3	15
	06	9:7	5.8	11.6	18.7	9.0	8.4	3.2	4.5	7.7	11.0	10.3	4.8	15
	09	5.2	3.9	5.2	2.6	7:1	8.4	7.1	16.8	20.6	16.1	7.1	6,3	155
	12	2.6	2.6	3.2	:6	5.2	6.5	7.1	27.1	25.2	12.9	7:1	6,8	15
	15	:6	1.9	2.6	5.8	7.1	6.5	4.5	20.0	19.4	19.4	12:3	7.0	15
	18	5.8	7.1	14.8	4.5	5.2	5.2	5.8	10.3	13.5	14.8	12.9	5.7	15
	21	21:3	11.0	11:6	9.7	7:1	5.2	3.9	4,5	9.7	6,5	9:7	4.0	15
101	ALS	13.2	7.1	9.2	7.1	6.9	6.3	4.7	11.9	13.5	10.9	9:3	5.1	124

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12925 CHASE FIELDS TEXAS

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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MONTH	HOURS				PERCENTAG	E FREQUENC	Y OF TENTHS	OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL
MONIH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	NO. OF OBS.
SEP	00	38.7	10.0	15.3	5.3	2.7	2.0	2.0	5.3	2.0	3,3	13.3	3.1	15
	03	32.0	14.7	7.3	8:0	6.7	5.3	2.7	5,3	4.7	2.7	10.7	3.3	15
	06	15:3	8.0	12.7	6.0	6.7	5.3	2.0	11.3	6.0	10.7	16.0	5.0	15
	09	10:7	5.3	4:0	2:7	12:0	7.3	6.7	11.3	9.3	11.3	19:3	6.0	15
	12	6.7	4.0	3.3	4:7	3.3	8.0	4.7	20.7	18.0	10.7	16:0	6.5	150
	15	7.3	1.3	3.3	3.3	11:3	12.0	7.3	16.0	18.0	6.0	14:0	6.2	15
	18	12.7	10.0	10.7	9:3	9.3	4.0	4.0	7.3	8.7	15.3	8.7	4.9	150
	21	30:0	9.3	12.0	8:0	6:0	3.3	5.3	4.0	4:.7	4.7	12.7	3.6	150
tot	ALS	19,2	7.8	8.6	5.9	7.3	5.9	4.3	10.2	8.9	8.1	13.8	4.8	120

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# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	E FREQUENC	Y OF TENTH	OF TOTAL	SKY COVER				MEAN	TOTAL
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	TENTHS OF SKY COVER	NO. OF OBS.
nct	00	45.8	5.2	5.2	5.2	5.8	2.6	1.9	1.3	3.9	1.9	21-3	3.5	15
	03	38.1	7.7	10.3	-6:5-	3.9	1.9	1.3	3.9	5.2	3,9	17.4	3.6	15
	06	25.8	5.8	9.0	6.5	5.2	4.5	3.9	9.7	5.2	6,5	18:1	4.6	15
	09-	19.4	8.4	7.7	6.5	3.2	2.6	4.5	9.7	8,4	9.7	20:0	5.2	15
	12	13.5	3.2	1.9	5.2	5.2	6.5	7.1	14.8	13.5	12.9	16.1	6.1	15
	15	11:6	4.5	3.2	7:7	6.5	9.0	9.7	12.9	11:0	5.8	18:1	5.7	159
	18	18.1	11.6	14.2	11:0	6.5	5.2	1.9	5.8	3.9	9,7	12.3	4.2	155
	21	46.5	4.5	4.5	9.0	4.5	3.9	1.3	5,2	2.0	3,2	14.8	3,2	15
TOT	ALS	27.4	6.4	7.0	7.2	5.1	4.5	4.0	7.9	6:7	6.7	17:3	4.5	124

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12925 CHASE FIELD. TEXAS

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# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	FREQUENC	Y OF TENTHS	OF TOTAL	SKY COVER				MEAN	TOTAL
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	TENTHS OF SKY COVER	NO. OF OBS.
NOV	-00	39:3	9.3	5.3	2.0	2.7	.7	.7	4.0	3,3	2.7	30.0	4.2	150
	03	36:0	4.7	4.7	7.3	2.0	2.0	4.0	5.3	6.7	4.0	23.3	4.4	150
	06	32:0	6.7	2.0	4:0	4:0	4.0	2.0	1.3	5.3	6.0	32.7	5.0	150
	09	24:0	7.3	3.3	.7	3.3	2.0	2.0	6.7	10.0	8.7	32:0	5.8	150
	12	22.7	6.7	2.7	2:0	3.3	5.3	6.7	8.0	6.0	12.0	24.7	5.6	150
	15	19.3	8.7	6.7	2:7	3.3	4.7	5.7	8.0	8.7.	12.7	18.7	5.3	150
	18	18.7	10.7	8.7	10:0	5.3	2.7	1.3	2.7	3.3	4.7	26.0	4.5	150
	21	41.3	8.0	4.0	6:0	2.7	.7	2.7	1.3	5.3	4.0	24:0	3.9	150
тот	ALS	29.2	6.5	4.7	4:3	3.3	2.8	3.3	4,7	6.1	6.9	26.4	4.8	1200

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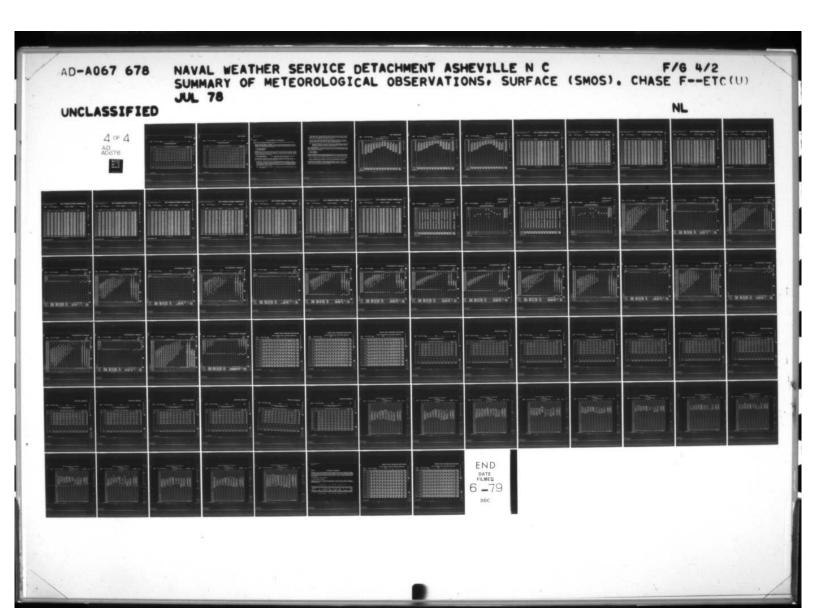
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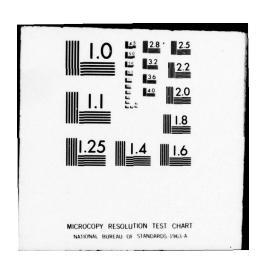
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# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAG	E FREQUENC	Y OF TENTHS	OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL NO. OF
MONIN	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS.
DEC	00	34.8	3.9	7:1	3.2	3.2	1.9	2.6	1,3	4:5	4.5	32.9	4.8	15
-	03	34.2	3.9	7.1	1:3	3.2	1.9	1.9	6.5	3.2	1.3	35.5	4.9	15
	06	27.1	2.6	7.1	3.9	2.6	1.9	1.9	3,2	3.9	8.4	37.4	5,6	15
	09	15.5	5.8	5.8	2.6	3.2	1.3	1.9	4,5	7.7	12.3	39.4	6,5	15
	12	18.7	5.2	1.9	2.6	2:6	3.2	3.9	7.7	10:3	8,4	35.5	6.3	15
	15	16:1	9.7	3.9	4:5	3.2	2.6	4.5	7.7	5.8	12.9	29:0	5.9	15
	18	18:1	14.2	4.5	5.2	2.6	2.6	3.2	3.2	7.1	8,4	31:0	5,5	15
	21	35.5	5.8	4.5	5.2	3.2	2.6	.6	3,9	4.5	3,9	30.3	4,6	15
тот	ALS	25:0	6.4	5.2	3.6	3:0	2.3	2.6	4.8	5,9	7.5	33.9	5.5	124

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAG	E FREQUENC	OF TENTHS	OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL
MONIN	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	NO. OF OBS.
JAN	ALL	19:2	3.8	5.2	4:3	2:9	1.9	1.3	4.7	5.7	6.9	44.3	6.4	124
FEB		27.9	7.3	5.2	3.4	2.7	1.8	2.9	4.4	6.5	6.9	31:0	5.2	112
MAR		13.8	3.5	3.3	3:0	3.5	2.3	2.5	5.0	7.6	9.9	45.6	7.0	124
APR		17:5	3.2	4.9	2.9	3:0	3.0	2.2	5.1	7.5	11.2	39.6	6,6	120
MAY		11:7	5.2	4:5	4:4	4:0	3.2	4.9	9.0	11:0	12.3	29:7	6.5	124
JUN		15:3	5.3	7.1	5.6	6.5	5.2	6.4	11.7	15.4	8.7	12.9	5.4	120
JUC		16:4	7.3	8.3	8.4	6.7	6.1	4.9	9.6	11.8	10.0	10.5	4.9	124
AUG		13.2	7.1	9.2	7.1	6.9	6.3	4.7	11.9	13.5	10.9	9:3	5.1	124
SEP		19:2	7.8	8.6	5.9	7.3	5.9	4.3	10.2	8.9	8.1	13.8	4.8	120
DCT		27:4	6.4	7:0	7.2	5.1	4.5	4.0	7.9	6.7	6.7	17:3	4,5	124
NOV		29:2	8.5	4.7	4:3	3.3	2.8	3.3	4.7	6.1	6.9	26.4	4.8	120
DEC		25:0	6.4	9.2	3.6	300	2.3	2.6	4.8	5:9	7.5	33.9	5.5	124
TOT	ALS	19:7	6.0	6.1	5.0	4:6	3.8	3.7	7.4	8.9	8,8	26.2	5.6	1460

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NWSD, Federal Building Asheville, N. C.

#### PART E

#### PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dev points, and relative humidity. The order and manner of presentation follows:

- 1. <u>Cumulative percentage frequency of occurrence</u> derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperaturec. Daily mean temperature
- 2. Extreme values derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.

- b. Extreme minimum temperature
- Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
  - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares  $(\sum X^2)$ , sums of values  $(\sum X)$ , means  $(\overline{X})$ , and standard deviations  $(\sigma x)$ . The number of observations used in the computations for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.
  - NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.
- 4. Means and standard deviations These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:
  - a. Dry-bulb temperature
  - b. Wet-bulb temperature
  - c. Dew-point temperature
- 5. Cumulative percentage frequency of occurrence of relative humidity This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
  - a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
  - b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.
- 6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).

#### **DAILY TEMPERATURES**

STATION CHASE FIELD, TEXAS

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

MUMIXAM

20721 Daily Temperature and 1969

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	MP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
2	105								1.3					.2
≥	100				. 4	.1	1.7	9.8	10.5	19	.1			2.0
≥	95			,5	1.1	2.0	15.0	46.0	52.1	19.8	1,2			11,5
≥	90	.4	.3	3.7	8.2	20.7	71.3	88.1	88.4	58,4	16.3	1.1		29,6
≥	85	2,2	2.8	12.0	32.2	69.0	94.8	97.2	97.2	85,5	47.3	10.0	1,5	45,8
≥	80	8.5	11.4	34,5	65.6	91.5	98.7	99.3	99.4	94.1	74,5	33,5	11.0	60.2
2	75	22.6	30.0			97.3	99.7	100.0	100.0	98,8	89.7	56.1	29,8	72,3
≥	70	36.7	49.6	76.5	95.5	99,1	99.9			99.7	95.6	70.6	48.4	81.0
≥	65	52.3	66.1	88.2	98.2	100,0	100.0			99,9	98.3	82.6	64.4	87.6
≥	60	64.9	79.1	93.0	99.3					100,0	99.1	89,5	79.6	92.1
≥	55	76.7	88.5	96.6	100.0						99,9	94.9	87.7	95,4
≥	50	87.0	95.4	99.1							100,0		93.7	97.8
2	45	93.8	98.2									99,6	97.3	99,0
≥	40	97.4	99.7	99,9								100,0	99.5	99.7
2	35	99.1	100.0	100.0									100,0	99.9
2	30	99.9												100,0
2	25	100.0												100,0
2														
≥														
≥														
≥						Section 2								
≥														
≥		1												
2														
2						To be to the								
2			19											
2														
2		1	- 10 - 15											
2														
2														
2	B 1876													
2	110													
≥														
2														
2						1 N E 1 N								
	MEAN	64.0	68.1	74.9	81:3	86.0	71.0	74.0	74.4	111	83.0	73,0	67.5	80.7
	S. D.	12.110	10.199	7,301	6,549	4,826	4.020	4,350	4,367	3,393	6.890	7,861	10.382	12,754
TO	TAL OBS.	744	676	757	736	764	707	706	774	796	774	749	775	8888

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#### **DAILY TEMPERATURES**

STATION CHASE FIELD TEXAS

45-461 54-77 YEARS

MINIMUM

5721 Darly Temperatures Jan 1859

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

	TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
	80						3.4	3.0	2.6					. 6
	75				3,3	13.8				30.5	3.9	,3		17.6
	70	.4		4.6	27.7	47.7	45.5	90.6	97.0	73.9	21.7	401	.5	38.3
:	65	4.0	5.0	10.000	47.6	79.0	97.0	100.0	100.0	68.9	46.0	14.2	5.6	50.4
	60	9.9	12.7	28.7	70 4	04.5	4.00			96.3	67.6	27.8	12.1	60.5
2	22	16.7	25.4	51.9	85.3	98.9	100.0			99.1	81.5	48.1	22.6	69.1
2	50	30.2	42.6	67.6	93.9	100.0				99.7	93.1	64.0	34.9	77.2
2	45	40.0	62.6	84.9	96,2					10010	97.7	78.4	55,3	85.3
2	40	65.1	78.7	93.8	99.6						99.5	90.1	75.8	91.9
2	25	82.1	90.4	98.8	100.0						99.9	96.5	90.3	96.5
2	30	92.2	97.5	100.0							100,0	99.1	97.9	98.9
2	25		99.7									100.0	100.0	99.7
2	20	99.1	100.0											99,9
2	15	100.0												100.0
2														
≥														
2														
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2	ALL THE													
2									200					
2	No.													
_	MEAN	10,614	47.6	34.7	63.3	60.7	73.2	75.1	75.1	71.5	62.3	53.2	46.7	61.3
	S. D.	10.814	9.699	9,515	7.904	5.350	3.968	2.344	2,050	9,107	8,140	10,001	9.707	13,505
	TOTAL OBS.	744	676	756	737	744	705	706	774	750	771	749	774	8884

#### **DAILY TEMPERATURES**

1969

Temperatures Jan 1

Daily

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STATION STATION NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE

MEAN

(FROM DAILY OBSERVATIONS)

1.4 4.1 5.2
12.1 36.7 83.0 96.0 94.6
42.5 78.0 97.0 99.6 99.6
71.5 95.0 99.7 100.0 100.0
95.9 100.0 JAN. MAR. APR. JUN. JUL. AUG. OCT. NOV. 90 20,2 71,4 69,2 1,0 17,5 46,4 71,9 87,5 85 2 80 1.9 11.8 13.8 97:0 2 35,1 36,7 74,1 8,5 60.9 70 10.8 23,3 70.9 79.3 65 25.1 2 96,2 100:0 60 45.1 88.1 99.2 94.6 100.0 98.9 99.6 81,4 98,8 49.1 92,2 87.2 92.9 62,5 35 80.1 50 67,2 97,7 97,7 91,0 99,5 96,8 99,9 99,5 90.6 45 81,5 100.0 92.5 99.6 100.0 98.8 40 99,6 35 96.6 99.2 100.0 2 100,0 100,0 99.9 30 100.0 25 100.0 100,0 20 ≥ 2 ≥ 2

MEAN 54,4 58,1 65,1 72,5 77,6 82,4 84,8 88,0 80,8 73,0 63,8 57,4 71,2
S.D. 10,622 7,611 8,632 6,438 4,879 3,622 2,718 3,086 6,723 6,829 7,203 7,125 12,600
TOTAL OBS. 744 676 756 736 744 705 706 774 744 771 749 774 8879
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 NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

12925 STATION CHASE FIELD, TX.

STATION NAME

1946-1946 1955-1977

955-1977 YEARS JANUARY

MONTH

	MEAN TE	MP		M	AXIMUM TE	MP			N	AINIMUM TE	MP	
	AVERA		AVERA		EXTR			AVERAC		EXTR		
DAY	°F	°c	°F	°C	°F	°c	DATE	°F	°c	°F	°c	DATE
1	53,8	12.1	62.8	17.1	82	27.8	1976	44,8	7,1	58	-2.2	1970
2	54.7	12.6	63.0	17.2	77	25.0	1965	46.5	8,1	29	-1.7	1977
3	53.8	12.1	62.5	16.9	91	32.8	1971	45.1	7,3	26	-3,3	1977
4	51.5	10.6	60.7	15.9	81	27.2	1962	42.4	5,8	23	-5.0	1959
5	51.0	10.6	59.5	15.3	77	25.0	1957+	42.6	5,9	26	-3,3	1969
6	53.7	12.1	62.8	17.1	81	27.2	1956+	44.7	7,1	26	-3,3	1970
7	52.8	11.6	62.1	16.7	83	28.3	1969	43,4	6,3	18	-7,8	1970
8	53.4	11.9	63.1	17.3	86	30.0	1969	43.6	6,4	21	-6,1	1976
9	52.5	11.4	63.0	17.2	87	30.6	1957	41.9	5,5	24	-4.4	1962
10	51.4	10.8	61.5	16.4	87	30.6	1974	41,3	5,2	18	-7,8	1962
11	51.3	10.7	61.5	16.4	81	27.2	1971	41.1	5,1	19	-7.2	1962
12	51.5	10.8	61.2	16.2	81	27.2	1971	41.8	5,4	15	-9.4	1962
13	52.9	11.6	62.2	16.8	84	28.9	1976	43.7	6,5	19	-7.2	1975
14	54,1	12.3	64.0	17.8	82	27.8	1962	44.3	6,8	25	-3,9	1964
15	53.0	11.7	64.1	17.8	78	25.6	1969	41.9	5,5	27	-2.8	1972
16	52.5	11.4	63.7	17.6	77	25.0	1969	41.2	5.1	26	-3,3	1972
17	54.4	12.4	64.2	17.9	86	30.0	1974	44.6	7.0	26	-3,3	1965
18	54.7	12.6	63.9	17.7	84	28.9	1974	45.5	7,5	28	-2.2	1977
19	52.8	11.6	62.4	16.9	77	25.0	1973+	43.2	6,2	23	-5.0	1977
20	54.0	12.2	64.6	18.1	88	31.1	1974	43,3	6,3	26	-3.3	1963
21	55.6	13.1	66.4	19.1	85	29.4	1969	44.7	7.1	26	-3.3	1963
22	56.9	13.8	67.5	19.7	93	33.9	1969	46.3	7.9	27	-2.8	1959
23	53.7	12.1	62.7	17.1	86	30.0	1972	44.6	7,0	24	-4.4	1966
24	53.4	11.9	62.4	16.9	83	28.3	1972	44.5	6.9	18	-7.8	1963
25	56.3	13.5	66.7	19.3	86	30.0	1975*	45.9	7,7	30	-1.1	1961
26	57.2	14.0	68.3	20.2	84	28.9	1975	46.2	7,9	30	-1.1	1966
27	57.3	14.1	67.2	19.6	84	28.9	1975	47.4	8,6	27	-2.8	1976
28	56.4	13.6	67.0	19.4	82	27.8	1970	45.8	7.7	24	-4.4	1976
29	56.1	13.4	66.8	19.3	83	28.3	1971+	45.5	7.5	22	-5.6	1973
30	56.4	13.6	67.9	19.9	92	33.3	1971	45.0	7.2	20	-6.7	1966
31	58.1	14.5	68.3	20.2	80	26.7	1975+	47.8	8.8	32	0.0	1970
Monthly	54.1	12.3	64.0	17.8	93	33.9	1969	44.2	6,8	15	-9.4	1962

\*ALSO ON EARLIER YEARS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

12925 CHASE FIELD, TX.

1946-1946 1955-1977

PEBRUARY

STATION STATION NAME

YEARS

MONTH

	MEAN TE	MP		М	AXIMUM TE	MP			٨	MINIMUM TE	MP	
	AVERAG	iE .	AVERA	GE	EXTR	EME		AVERAC	E	EXTR	ME	
DAY	°F	°c	°F	°C	°F	°c	DATE	°F	°C	°F	°c	DATE
1	59.8	15.4	69.6	20.9	88	31.1	1963	49.9	9,9	34	1.1	1976
2	55.5	13.1	65.1	18.4	87	30.6	1974*	45.8	7,7	30	-1.1	1966
3	54.2	12.3	63.4	17.4	80	26:7	1957	45.1	7,3	28	-2.2	1972
4	57.2	14.0	68.0	20.0	83	28.3	1962	46.5	8,1	22	a5,6	1972
5	58.7	14.8	69.5	20.8	81	27.2	1973+	47.9	8,8	34	1.1	1956
6	57.5	14.2	67.1	19.5	65	29.4	1969	47.9	8,8	36	2,2	1975
7	55.3	12.9	64.6	18.1	86	30.0	1969	45.9	7.7	30	-1.1	1975
8	57.1	13.9	68.3	20.2	89	31.7	1962	46.0	7.8	26	-3.3	1973
9	57.2	14.0	69.0	20.6	92	33.3	1962	45.5	7,5	25	-3.9	1974
10	57.8	14.3	69.6	20.9	89	31.7	1957	46.1	7,8	28	-2,2	1973
11	57.6	14.2	68.5	20.3	85	29.4	1969	46.7	8.2	31	-0.6	1963
12	56.7	13.7	67.0	19.4	81	27.2	1969+	46.5	8.1	28	-2.2	1963
13	57.8	14.3	68.8	20.4	83	28.3	1962	46.8	8.2	27	-2.8	1958
14	59.4	15.2	69.7	20.9	81	27.2	1970	49.1	9.5	31	-0.6	1963
15	60.3	15.7	70.3	21.3	85	29.4	1952	50.2	10.1	34	1.1	1973
16	58.8	14.9	69.0	20.6	82	27.8	1971	48.7	9,3	33	0.6	1977
17	59.0	15.0	67.9	19.9	88	31.1	1959	50.2	10.1	38	3,3	1973
18	59.1	15.1	69.1	20.6	84	28.9	1970	49.0	9.4	36	2.2	1960
19	57.6	14.2	67.6	19.8	83	28.3	1971	47.6	8,7	38	3.3	1966
20	57.2	14.0	65.4	18.6	79	26.1	1976#	48.9	9,4	37	2.8	1959
21	56.3	13.5	66.1	18.9	81	27.2	1975	46.5	8.1	32	0.0	1964
22	55.6	13.1	65.3	18.5	89	31.7	1975	45.9	7.7	31	-0.6	1964
23	56.2	13.4	66.6	19.2	79	26.1	1977+	45.7	7,6	27	-2.8	1976
24	56.8	13.8	67.2	19.6	87	30.6	1956	46.3	7.9	30	-1.1	1960
25	59.2	15.1	71.0	21.7	89	31.7	1977	47.4	8,6	26	-3,3	1960
26	60.7	15.9	71.8	22.1	83	28.3	1971+	49.6	9.8	23	-5.0	1974
27	61.0	16.1	71.3	21.8	84	28.9	1969	50.6	10.3	33	0.6	1977
28	61.2	16.2	72.0	22,2	85	29.4	1975	50.4	10.2	33	0.6	1962
29	56.3	13.5	65.2	18.4	81	27.2	1976	47.5	8,6	37	2.8	1960
30									-			
31												
Monthly	57.9	14.4	68.1	20.1	92	33.3	1962	47.6	8.7	22	-5.6	1972

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

5725 DALY AVERAGE/EXTREME TAMP MAR 1978

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

YEARS

12925 CHASE FIELD, TX. STATION

STATION NAME

1945-1946 1955-1977

MONTH

	MEAN T	EMP		M	AXIMUM TE	MP			1	MINIMUM TE	MP	
	AVERA	GE	AVERA	GE	EXTRE	EME		AVERAC	GE	EXTR	EME	
DAY	°F	°c	°F	°c	°F	°c	DATE	°F	°c	°F	°c	DATE
1	61.9	16.6	71.2	21.8	91	32.8	1975	52,5	11,4	31	-0.6	1962
2	63.6	17.6	74.1	23.4	88	31.1	1966	53.0	11,7	32	0,0	1962
3	64.2	17.9	73.8	23.2	90	32.2	1966	54.6	12,6	35	1,7	1971
4	64.1	17.8	73.2	22.9	91	32.8	1963	55.0	12.8	32	0.0	1965
5	63.2	17.3	72.4	22.4	85	29.4	1967	54.0	12.2	37	2,8	1965
6	62.2	16.8	72.2	22.3	87	30.6	1973	52.2	11,2	33	0.6	1966
7	61.3	16.3	71.8	22.1	90	32.2	1975	50.9	10.5	36	2,2	1977
8	61.6	16.4	71.9	22.2	87	30,6	1974	51.2	10.7	37	2.8	1977
9	64.4	18.0	74.5	23.6	85	29.4	1974	54.0	12.2	38	3,3	1969
10	66.6	19.2	77.0	25.0	89	31.7	1955	56.3	13,5	38	3,3	1969
11	66.3	19.1	75.7	24.3	91	32.8	1955	56.9	13.8	39	3.9	1970
12	64.8	18.2	75.2	24.0	90	32.2	1963	54.5	12.5	34	1.1	1970
13	63.1	17.3	72.5	22.5	91	32.8	1971	53.7	12.1	34	1.1	1970
14	64.6	18.1	74.6	23.7	94	34.4	1971	54.5	12.5	40	4.4	1970
15	66.0	18.9	75.5	24.2	89	31.7	1973	56.5	13.6	38	3.3	1962
16	64.4	18.0	74.0	23.3	87	30.6	1971+	54.7	12.6	39	3.9	1962
17	64.9	18.3	75.6	24.2	88	31.1	1972	54.2	12.3	40	4.4	1973
18	65.8	18.8	76.1	24.5	89	31.7	1971	55.5	13.1	37	2,8	1960
19	64.9	18.3	74.4	23.6	87	30.6	1969	55.4	13.0	35	1.7	1958
20	64.6	18.1	75.5	24.2	87	30.6	1976	53.8	12.1	32	0.0	1965
21	63.1	17.3	73.9	23.3	88	31.1	1972	52.3	11.3	38	3,3	1965
22	63.8	17.7	74.6	23.7	96	35.6	1971	53.1	11.7	36	2.2	1968
23	66.9	19.4	78.1	25.6	91	32.8	1975	55.6	13.1	39	3,9	1968
24	66.3	19.1	75.8	24.3	97	36.1	1945	56.9	13.8	36	2.2	1974
25	65.4	18.6	76.1	24.5	95	35.0	1971	34.6	12.6	39	3,9	1974
26	63.9	17.7	73.9	23.3	89	31.7	1967	53.9	12,2	-32	0.0	1955
27	66.3	19.1	76.8	24.9	91	32.8	1975+	35.8	13.2	36	2,2	1955
28	68.9	20.5	79.7	26.5	96	35.6	1972	58.0	14.4	39	3.9	1955
29	69.1	20.6	79.1	26.2	92	33.3	1976+	59.0	15.0	39	3,9	1975
30	66.9	19.4	77.4	25.2	94	34.4	1974	36.4	13,6	35	1.7	1975
31	67.1	19.5	77.5	25.3	93	33.9	1946	56.8	13.8	40	4.4	1972
onthly	64.8	18.2	74.9	23.8	97	36.1	1945	34.7	12.6	31	-0.6	1962

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

0 525 DAILY AVERAGE/EXTEME TEMP MAR 1978

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

12925 CHASE FIELD, TX.

1945-1946 1955-1977

APRIL

STATION

STATION NAME

YEARS

MONTH

TIME"

5725 DAILY AVERAGE EXTREME TEMP MAR 197

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	MEAN TE	MP		M	AXIMUM TE	MP			٨	MINIMUM TE	MP	
	AVERAC		AVERA		EXTR	EME		AVERAC	E	EXTRE	ME	
DAY	°F	°c	°F	°c	°F	°c	DATE	°F	°c	°F	°c	DATE
1	68.9	20.5	79.9	26.6	91	32.8	1974	57.8	14.3	42	5,6	1972
2	69.7	20.9	80.2	26.8	93	33.9	1945	59.2	15.1	44	6.7	1962
3	70.8	21.6	61.3	27.4	95	35.0	1968	60.3	15.7	41	5.0	1975
4	68,6	20.3	78.0	25.6	91	32.8	1957	59.1	15.1	39	3.9	1973
5	67.5	19.7	77.5	25.3	91	32.8	1956	57.4	14.1	43	6.1	1973
6	67.4	19.7	78.6	25.9	90	32.2	1960#	56.2	13.4	39	3.9	1945
7	69.0	20.6	79.2	26.2	94	34.4	1972	58.7	14.8	43	6.1	1945
8	69.4	20.8	79.4	26.3	95	35.0	1963	59.4	15.2	47	8.3	1964
9	69.6	20.9	78.6	25.9	102	38.9	1963	60.5	15.8	35	1.7	1973
10	70.1	21.2	78.5	25.8	94	34.4	1963	61.7	16.5	42	5.6	1973
11	71.1	21.7	79.8	26.6	92	33.3	1963	62.4	16.9	47	8.3	1973
12	72.1	22.3	80.6	27.0	92	33.3	1972	63.7	17.6	51	10.6	1957
13	70.9	21.6	79.2	26.2	92	33.3	1972	62.6	17.0	45	7.2	1957
14	71.7	22.1	80.5	26.9	91	32.8	1966*	63.0	17.2	48	8.9	1957
15	72.0	22.2	80.6	27.0	92	33.3	1967	63.3	17.4	51	10.6	1961
16	70.8	21.6	80.3	26.8	92	33.3	1972	61.2	16.2	48	8.9	1961
17	72.0	22.2	80.8	27.1	89	31.7	1967	63.2	17.3	50	10.0	1961
18	73.9	23.3	83.0	28.3	99	37.2	1975	64.9	18.3	53	11.7	19694
19	75.3	24.1	83.6	28.7	91	32.8	1965	66.9	19.4	55	12.8	1969
20	74.6	23.7	82.6	28.1	93	33.9	1965	66.6	19.2	58	14.4	19754
21	73.4	23.0	81.6	27.6	91	32.6	1972	65.2	18.4	51	10.6	1966
22	74.8	23.8	82.8	28.2	90	32.2	1963	66.7	19.3	49	9.4	1972
23	76.1	24.5	84.6	29.2	104	40.0	1958	67.7	19.8	54	12.2	1939
24	75.8	24.3	84.6	29.2	96	35.6	1955	66.9	19.4	55	12.8	1959
25	75.3	24.1	84.4	29.1	93	33.0	1945		18.9	55	12.8	1968
		The second second second second		28.8	91	32.8		67.4	19.7	59	15.0	1977
26	75.6	24.2	83.8	28.1	98		1945		10.4	50	-	1973
27	74.4	23.6	82.6			36.7	1964	66,3	10 0	52	10.0	
28	76.2	24.6	84.4	29,1	100	37.8	1962	67,9	19.0		10.1	1973
29	75.7	24.3	83.4	28,6	90	32.2	1971	67.9	19,9	54	12.2	1969
30	74.3	23.5	82.4	28.0	90	32.2	1967	66.1	18,9	54	12,2	1965
31												
Monthly	72.3	22.4	81.3	27.4	104	40.0	1958	63.3	17,4	35	1.7	1973

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

12925 CHASE FIELD, TX. STATION

STATION NAME

1945-1946 1955-1977

MONTH

MEAN TE	MP		M	AXIMUM TE	MP			N	MINIMUM TE	MP	
AVERAG	E	AVERA	GE	EXTR	EME		AVERAG	E	EXTRE	ME	
°F	°c	°F	°c_	°F	°C	DATE	°F	°c	°F	°c	DATE
73.3	22.9	81.5	27.5	92	33.3	1967	65.2	18.4	56	13.3	1965
73.7	23.2	42.7	28.2	96	35.6	1964	64.7	18.2	54	12.2	1976
74.0	23.3	82.1	27.8	89	31.7	1977*	66.0	18,9	50	10.0	1970
74.9	23.8	83.7	28.7	89	31.7	1969*	66.2	19.0	54	12.2	1945
75.5	24.2	83.3	28.5	94	34.4	1971	67.6	19,8	52	11.1	1945
76.1	24.5	83.6	28.7	93	33.9	1967	68.5	20.3	55	12.8	1957
76.7	24.8	85.0	29.4	95	35.0	1967	68.5	20.3	55	12.8	1960
76.9	24.9	85.8	29.9	102	38.9	1967	68.0	20.0	55	12.8	1960
76.4	24.7	85.1	29.5	92	33.3	1973+	67.7	19.8	59	15.0	1973
		86.5		93	33.9	1967	68.5	20.3	54	12.2	1961
				94	34.4	1967	68.2	20.1	58	14.4	1961
				95	35.0	1967	67.1	19.5	54	12.2	1960
77.1				94	34.4	1969	68.6	20.3	56	13.3	1960
77.2				92	33.3	1969+	69.0	20.6	59	15.0	1976
				92	33.3	1945	68.5	20.3	56	13.3	1973
						1963	67.8	19.9	51	10.6	1973
						1966+	67.2	19.6	53	11.7	1945
						1973+		19.6	56	13.3	1945
						1973			61	16.1	1957
77.6									66	18.9	1970
						1955			63	17.2	1960
									60	15.6	1967
											1970
									62		1975
											1975
									65	18.3	1970
									64	17.8	1961
			The second secon								1976
					34.4	1973#			66	17.8	1973
					35.4					17.2	1975
			31.2			19744		21.5		13.6	1975
77,3	25.2	86.0	30.0	102		1967		20.4		10.0	1970
	73.3 73.7 74.0 74.9 75.5 76.1 76.7 76.9 76.4 77.5 76.8 76.5 77.1 77.2 76.7 76.7 76.7 76.7 76.7 76.7 76.7	73,3 22,9 73,7 23,2 74,0 23,3 74,9 23,8 75,5 24,2 76,1 24,5 76,7 24,8 76,9 24,9 76,6 24,7 77,5 25,3 76,8 24,9 76,5 24,7 77,1 25,1 77,2 25,1 76,7 24,8 76,7 24,8 76,7 24,8 76,7 24,8 76,7 24,8 76,7 24,8 76,7 24,8 76,7 24,8 76,7 24,8 76,7 24,8 76,7 25,1 77,1 25,1 77,2 25,1 76,7 24,8 76,7 24,8 76,7 24,8 76,7 24,8 76,7 24,8 76,7 25,1 76,6 25,3 77,7 25,4 78,8 26,0 78,3 25,7 79,1 26,2 80,1 26,7 80,6 27,0 79,9 26,6 79,9 26,6 79,9 26,6 79,9 26,6	AVERAGE  73,3 22,9 81,5 73,7 23,2 42,7 74,0 23,3 82,1 74,9 23,8 83,7 75,5 24,2 83,3 76,1 24,5 83,0 76,7 24,8 85,6 76,9 24,9 85,8 76,4 24,7 85,1 77,5 25,3 86,5 76,8 24,7 85,8 77,1 25,1 85,6 77,1 25,1 85,6 77,1 25,1 85,6 76,7 24,8 85,5 76,7 24,8 85,5 76,7 24,8 85,5 76,7 24,8 85,5 76,7 24,8 85,5 76,7 24,8 85,5 76,7 24,8 85,5 76,7 24,8 85,5 76,7 24,8 85,5 76,7 24,8 85,5 76,7 24,8 85,5 76,7 24,8 85,5 76,7 24,8 85,5 76,7 24,8 85,6 77,0 25,3 85,7 77,7 25,4 86,4 77,6 25,3 85,7 77,7 25,4 86,4 77,6 25,3 85,7 77,7 25,4 86,4 77,6 25,3 85,7 77,7 25,4 86,4 77,6 25,3 85,7 77,7 25,4 86,4 77,6 25,3 85,7 77,7 25,4 86,4 77,6 25,3 85,7 77,7 25,4 86,4 77,6 25,3 85,7 77,7 25,4 86,4 77,6 26,4 88,6	AVERAGE  "F "C "F "C  73.3 22.9 81.5 27.5  73.7 23.2 42.7 28.2  74.0 23.3 82.1 27.8  74.9 23.8 63.7 26.7  75.5 24.2 83.3 28.5  76.1 24.5 83.6 28.7  76.7 24.8 85.0 29.4  76.9 24.9 85.8 29.9  76.4 24.7 85.1 29.5  77.5 25.3 86.5 30.3  76.8 24.9 85.4 29.7  76.5 24.7 85.8 29.9  77.1 25.1 85.5 29.7  77.1 25.1 85.5 29.7  76.7 24.8 85.0 29.4  76.7 24.8 85.5 29.7  76.7 24.8 85.5 29.7  76.7 24.8 85.5 29.7  76.7 24.8 85.5 29.7  76.7 24.8 85.5 29.7  76.7 24.8 85.5 29.7  76.7 24.8 85.5 29.7  76.7 24.8 85.5 29.7  76.6 24.8 85.8 29.9  78.0 25.6 87.4 30.8  77.6 25.3 85.7 29.8  77.7 25.4 86.4 30.8  77.6 25.3 85.7 29.8  77.7 25.4 86.4 30.5  77.7 25.4 86.4 30.5  77.6 25.3 85.7 29.8  77.7 25.4 86.4 30.5  77.7 25.4 86.4 30.5  77.7 25.4 86.4 30.5  77.7 25.4 86.4 30.5  77.7 25.4 86.4 30.5  77.7 25.4 86.4 30.5  77.7 25.4 86.4 30.5  77.7 25.4 86.4 30.5  77.7 25.4 86.4 30.5  77.7 25.4 86.4 31.4  80.6 27.0 89.3 31.8  79.9 26.6 88.7 31.5  79.5 26.4 88.6 31.4	AVERAGE  **F***  **C***  **F***  **F***  **C***  **F***  **F***  **C***  **F***  **C***  **F***  **F***  **C***  **F***  **F***  **C****  **F***  **C****  **F***  **F***  **C****  **F***  **P***  **A***  **P***  **A***  **A**	AVERAGE  **F*** C*** C*** C*** C*** C*** C***	AVERAGE  "F" "C" "F" "C" "F" "C" "F" "C" "F" "C DATE  73,3 22,9 81,5 27,5 92 33,3 1967  73,7 23,2 42,7 28,2 96 35,6 1964  74.0 23,3 62,1 27,8 89 31,7 1977*  74.9 23,8 63,7 26,7 89 31,7 1969*  75,5 24,2 63,3 28,5 94 34,4 1971  76,1 24,5 63,0 28,7 93 33,9 1967  76,7 24,8 45,0 29,4 95 35,0 1967  76,9 24,9 85,8 29,9 102 38,9 1967  76,9 24,9 85,8 29,9 102 38,9 1967  76,8 24,7 85,1 29,5 92 33,3 1973*  77,5 25,3 66,5 30,3 93 33,9 1967  76,8 24,9 85,4 29,7 94 34,4 1967  76,5 24,7 85,8 29,9 95 35,0 1967  77,1 25,1 85,6 29,8 94 34,4 1969  77,2 25,1 85,5 29,7 92 33,3 1969  76,7 24,8 85,0 29,4 92 33,3 1969  76,7 24,8 85,5 29,7 91 32,8 1963  76,5 24,7 85,7 29,8 89 31,7 1966*  76,6 24,8 85,5 29,7 91 32,8 1963  76,7 24,8 85,7 29,8 89 31,7 1966*  76,6 24,8 85,8 29,9 91 32,8 1973*  77,7 25,4 86,4 30,2 94 34,4 1955  78,0 25,6 87,4 30,8 95 35,0 1973*  77,7 25,4 86,4 30,2 94 34,4 1955  78,8 26,0 87,0 30,6 94 34,4 1955  78,8 26,0 87,0 30,5 94 34,4 1955  78,8 26,0 87,0 30,5 94 34,4 1955  78,8 26,0 87,0 30,5 94 34,4 1955  78,8 26,0 87,0 30,5 94 34,4 1955  78,8 26,0 87,7 30,9 95 35,0 1958  80,1 26,7 88,6 31,4 95 35,0 1958  80,6 27,0 89,3 31,8 96 35,6 1958  80,6 27,0 89,3 31,8 96 35,6 1958  79,7 26,5 88,7 31,5 97 36,1 1973  79,7 26,5 88,7 31,5 97 36,1 1973  79,7 26,5 88,7 31,5 97 36,1 1973  79,7 26,5 88,7 31,5 97 36,1 1973  79,7 26,5 88,7 31,5 96 35,6 1958  79,7 36,4 26,5 88,7 31,5 97 36,1 1973  79,7 26,5 88,7 31,5 97 36,1 1973  79,7 26,5 88,7 31,5 97 36,1 1973  79,7 26,5 88,7 31,5 97 36,1 1973  79,7 26,5 88,7 31,5 97 36,1 1973	AVERAGE  "F "C "F "C "F "C DATE "F  73.3 22.9 81.5 27.5 92 32.3 1967 65.2  73.7 23.2 22.7 28.2 96 35.6 1964 64.7  74.0 23.3 82.1 27.8 89 31.7 19774 66.0  74.9 23.8 63.7 26.7 89 31.7 1969* 66.2  75.5 24.2 83.3 28.5 94 34.4 1971 67.6  76.1 24.5 83.6 28.7 93 33.9 1967 68.5  76.7 24.8 85.0 29.4 95 35.0 1967 68.5  76.9 24.9 85.8 29.9 102 38.9 1967 68.6  76.4 24.7 85.1 29.5 92 33.3 1973* 67.7  77.5 25.3 86.5 30.3 93 33.9 1967 68.5  76.6 24.9 85.8 29.7 94 34.4 1967 68.5  76.7 24.8 85.0 29.4 95 35.0 1967 68.5  76.7 24.8 85.5 29.7 94 34.4 1969 68.6  77.2 25.1 85.5 29.7 92 33.3 1969* 69.0  76.7 24.8 85.5 29.7 92 33.3 1969* 69.0  76.7 24.8 85.5 29.7 92 33.3 1969* 69.0  76.7 24.8 85.5 29.7 92 33.3 1969* 67.1  77.1 25.1 85.5 29.7 92 33.3 1969* 69.0  76.7 24.8 85.5 29.7 92 33.3 1969* 69.0  76.7 24.8 85.5 29.7 91 32.8 1963 67.8  76.6 24.8 85.5 29.7 91 32.8 1963 67.8  76.6 24.8 85.5 29.7 91 32.8 1963 67.8  76.7 24.8 85.5 29.7 91 32.8 1963 67.8  76.6 24.8 85.5 29.9 91 32.8 1973* 67.3  78.0 25.6 87.4 30.8 95 35.0 1973 68.6  77.6 25.3 85.7 29.8 92 33.3 1973* 67.3  78.0 25.6 87.4 30.8 95 35.0 1973 68.6  77.6 25.3 85.7 29.8 92 33.3 1973* 67.3  78.8 26.0 87.0 30.6 94 34.4 1974 70.6  78.8 26.0 87.0 30.6 94 34.4 1974 70.6  78.8 26.0 87.0 30.6 94 34.4 1975 69.1  79.1 26.2 87.7 30.9 95 35.0 1955 70.5  80.1 26.7 88.6 31.4 95 35.0 1958 71.6  80.6 27.0 89.3 31.8 96 35.6 1958 70.5  79.7 26.5 88.7 31.5 97 36.1 1973 71.1  79.6 26.4 88.8 31.6 96 35.6 1958 70.5  79.7 26.5 88.7 31.5 97 36.1 1973 70.3  79.7 26.5 88.7 31.5 96 35.6 1958 70.5	AVERAGE  "F "C "F "C DATE OF C OATE OATE OATE OATE OATE OATE OATE OATE	AVERAGE  OF  OC  OATE  OF  OC  DATE  OF  OC  OATE  OF  OC  OF  OF  OC  OATE  OF  OF  OF  OF  OF  OF  OF  OF  OF  O	AVERAGE  OF  OC  OC

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

12925 CHASE FIELD, TX.

1945-1946 1955-1977

JUNE

STATION

STATION NAME

YEARS

MONTH

	MEAN TE	MP		M	AXIMUM TE	MP			٨	MINIMUM TE	MP	
	AVERA		AVERA	GE	EXTR	EME		AVERAC	E	EXTRE	ME	
DAY	°F	° C	°F	°c	°F	°c	DATE	°F	°c	°F	°C	DATE
1	79.5	26.4	88.9	31.6	96	35.6	1969	70.2	21.2	57	13.9	1964
2	79.3	26.3	88.6	31.4	94	34.4	1974+	70.0	21.1	60	15.6	1975*
3	79.3	26.3	88.7	31.5	95	35.0	1960	69.9	21.1	60	15.6	1970
4	80.0	26.7	89.6	32.0	95	35.0	1960	70.4	21,3	61	16.1	1970
5	80.5	26.9	90.2	32.3	95	35.0	1973	70.8	21,6	65	18,3	1969
6	80.5	26.9	90.5	32.5	95	35.0	1977	70-16	21.4	63	17.2	1969
7	81.8	27.7	91.3	32.9	99	37.2	1977	73.3	22.4	68	20.0	1973*
8	81.5	27.5	90.6	32.6	97	36.1	1955	72.5	22,5	68	20.0	1970*
9	81.8	27.7	91.0	32.8	96	35.6	1956	72.6	22,6	67	19.4	1969
10	80.7	27.1	89.1	31.7	95	35.0	1958	72.3	22,4	58	14.4	1955
11	82.2	27.9	90.6	32.6	95	35.0	1966*	. 73,8	23,2	63	17.2	1955
12	82.5	28.1	91.5	33.1	98	36.7	1966	73.6	23,1	65	18.3	1945
13	82.9	28.3	92.3	33.5	100	37.8	1960	73.6	23.1	67	19.4	1945
14	83.0	28,3	92.3	33.5	101	38.3	1960	73.9	23,3	69	20.6	1962
15	83.3	28.5	91.7	33.2	99	37.2	1960	75.0	23,9	70	21.1	1974*
16	83.6	28.7	92.6	33.7	100	37.8	1966	74.7	23.7	69	20.6	1966
17	83.4	28.6	92.0	33.3	99	37.2	1967	74.8	23,8	69	20.6	1969
18	82.2	27.9	90.7	32.6	99	37.2	1969+	74.1	23.4	69	20.6	1945
19	82.7	28.2	91.9	33.3	100	37.8	1962	73.5	23.1	68	20.0	1945
20	82.3	27.9	91.0	32.8	104	40.0	1969	73.5	23,1	68	20.0	1961
21	82.2	27.9	90.7	32.6	102	38.9	1969	73.7	23.2	68	20.0	1976
22	82.7	28.2	91.6	33.1	101	38.3	1969	73.9	23,3	68	20.0	1961
23	83.1	28.4	91.6	33.1	101	38.3	1969	74.7	23.7	71	21.7	1977*
24	83.3	28.5	91.8	33.2	98	36.7	1969+	74.8	23,8	70	21.1	1961
25	82.5	28.1	90.6	32.6	99	37.2	1969	74.3	23,5	62	16,7	1974
26	82.8	28.2	90.7	32.6	98	36.7	1969	74.8	23,8	61	16.1	1974
27	83.1	28.4	91.8	33.2	101	38.3	1969	74.3	23,5	63	17.2	1974
28	83.9	28.8	92.8	33.8	100	37.8	1969	75.0	23,9	66	18,9	1974
29	83.8	28,8	92.5	33.6	101	38.3	1969	75.0	23,9	65	18,3	1974
30	83.8	28.8	92.5	33.6	101	38.3	1969	75.0	23,9	63	17.2	1975
31												
Monthly	82.1	27.8	91.0	32.8	104	40.0	1969	73.2	22.9	57	13.9	1964

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

5725 DATEY AVERAGE/EXTREME TEMP MAR 1978

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

CHASE FIELD, TX.
STATION NAME 12925 STATION

1945-1946 1955-1977

YEARS

MONTH

	MEAN T	EMP		M	AXIMUM TE	MP			. N	MINIMUM TE	MP	
	AVERA	GE	AVERA	GE	EXTR	EME		AVERA	3E	EXTRE	ME	
DAY	°F +	°c	°F	°c	°F	°c	DATE	°F	°c	°F	°c	DATE
1	83.7	28.7	92.3	33.5	102	38.9	1969	75.1	23,9	69	20.6	1974
2	83.5	28.6	92.3	33.5	101	38.3	1969	74.7	23,7	68	20.0	1963
3	83.7	28.7	92.7	33.7	103	39.4	1969	74.7	23,7	68	20.0	1963
4	84.1	28.9	93.5	34.2	102	38.9	1969	74.8	23,8	71	21.7	1963
5	84.1	28.9	93.6	34.2	102	38.9	1969	74.6	23,7	70	21.1	1975+
6	84.2	29.0	93.8	34.3	102	38.9	1965	74.7	23,7	70	21.1	1975
7	83.7	28.7	93.2	34.0	101	38.3	1969	74.2	23,4	69	20.6	1972
8	84.2	29.0	93.7	34.3	102	38.9	1969	74.7	23,7	72	22,2	1975*
9	84.0	28.9	93.2	34.0	104	40.0	1969	74.8	23,8	70	21.1	1975
10	83.8	28.8	92.7	33.7	105	40.6	1969	74.9	23,8	70	21.1	1975
11	84.2	29.0	93.8	34.3	101	38.3	1965	74.7	23,7	72	22.2	1975
12	84.6	29.2	93.7	34.3	101	38.3	1969	75.4	24.1	71	21.7	1973+
13	84.1	28.9	93.2	34.0	103	39.4	1969	74.9	23,8	70	21.1	1975
14	84.1	28.9	93.0	33.9	104	40.0	1969	75.1	23.9	68	20.0	1975
15	84.5	29.2	93.5	34.2	105	40.6	1969	75.6	24.2	67	19.4	1975
16	84.3	29.1	93.8	34.3	101	38.3	1969	74.7	23,7	65	18,3	1967
17	83.8	28.8	93.2	34.0	99	37.2	1965	74.5	23,6	70	21.1	1967
18	84.4	29.1	93.7	34.3	99	37.2	1965	75.0	23.9	72	22.2	1975
19	84.3	29.1	93.1	33.9	99	37.2	1969*	75.4	24.1	72	22.2	1964
20	84.4	29.1	93.8	34.3	101	38.3	1969	75.1	23,9	72	22.2	1974#
21	84.4	29.1	93.8	34.3	101	38.3	1969	75.0	23.9	71	21.7	1975
22	84.8	29.3	94.4	34.7	102	38.9	1965	75.1	23,9	72	22.2	1975*
23	84.9	29.4	94.0	34.4	102	38.9	1969	75.7	24,3	72	22.2	1975
24	84.9	29.4	94.3	34.6	100	37.8	1969	75.5	24,2	71	21.7	1976*
25	85.0	29.4	94.8	34.9	100	37.8	1974	75.2	24,0	69	20.6	1975
26	85.5	29.7	95.1	35.1	101	38.3	1974+	75.8	24.3	73	22.8	1977*
27	85.8	29.9	95.4	35.2	101	38.3	1974	76.1	24,5	72	22.2	1975*
28	85.8	29.9	96.0	35.6	104	40.0	1965	75.6	24.2	71	21.7	1975
29	85.7	29.8	96.2	35.7	105	40.6	1960	75.2	24,0	69	20.6	1975
30	86.1	30.1	97.0	36.1	106	41.1	1960	75.2	24.0	71	21.7	1975
31	86.1	30.1	96.7	35.9	103	39.4	1965	75.6	24.2	73	22.8	1975+
Monthly	84.5	29.2	94.0	34.4	106	41.1	1960	75.1	23.9	65	10.3	1967

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

525 DAILY AVERAGE/EXTEME TEMP MAR 1978

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION CHA

CHASE FIELD, TX.

1945-1946 1954-1977

AUGUST

STATION NAME

YEARS

MONTH

	MEAN TE	MP		M	AXIMUM TE	MP			N	INIMUM TE	MP	
	AVERAG	E	AVERA	GE	EXTR	EME		AVERAG	E	EXTRE	ME	
DAY	°F	°c	°F	°c	°F	°c	DATE	°F	°c	°F	°c	DATE
1	86.0	30.0	96.2	35.7	103	39.4	1965	75.9	24,4	72	22.2	1975
2	85.4	29.7	95.0	35.0	105	40.6	1977	75.8	24,3	72	22,2	1972*
3	85.1	29.5	94.5	34.7	102	38.9	1977*	75.6	24.2	72	22.2	1975*
4	84.8	29.3	94.3	34.6	101	38.3	1969	75.3	24,1	71	21.7	1975
5	84.4	29.1	93.9	34.4	100	37.8	1969+	75.0	23.9	69	20.6	1975
6	84.9	29.4	94.6	34.8	101	38.3	1969	75.2	24.0	68	20.0	1975
7	85.1	29.5	94.9	34.9	100	37.8	1977*	75.3	24.1	71	21.7	1975
8	85.4	29.7	95.3	35.2	103	39.4	1962	75.5	24.2	68	20.0	1975
9	85.8	29.9	96.2	35.7	106	41.1	1962	75.4	24.1	67	19.4	1975
10	86.0	30.0	96.4	35.8	106	41.1	1962	75.7	24,3	69	20,6	1975
11	85.2	29.6	94.7	34.8	106	41.1	1969	75.6	24,2	69	20.6	1975
12	85.6	29.8	95.5	35.3	106	41.1	1969	75.6	24,2	71	21.7	1975*
13	85.8	29.9	95.8	35.4	108	42.2	1962	75.8	24.3	65	18.3	1967
14	85.8	29.9	95.7	35.4	104	40.0	1969	75.8	24.3	70	21.1	1967
15	85.5	29.7	95.2	35.1	103	39.4	1969	75.6	24.3	70	21.1	1967
16	85.5	29.7	95.7	35.4	104	40.0	1969	75.3	24.1	71	21.7	1975*
17	84.9	29.4	94.8	34.9	106	41.1	1969	75.0	23.9	68	20.0	1967
18	85.2	29.6	95.5	35.3	106	41.1	1969	74.9	23.8	71	21.7	1975
19	84.9	29.4	94.4	34.7	103	39.4	1969	75.4	24.1	71	21.7	1975
20	84.8	29.3	94.5	34.7	101	38.3	1965	75.2	24.0	68	20.0	1977
21	85.0	29.4	94.7	34.8	99	37.2	1968+	75.3	24.1	71	21.7	1977+
22	84.9	29.4	94.9	34.9	103	39.4	1958	74.8	23.8	69	20.6	1973
23	84.6	29.2	94.3	34.6	102	38.9	1958	74.9	23.8	71	21.7	1970+
24	83.4	28.6	92.3	33.5	97	36.1	1966+	74.5	23,6	68	20.0	1961
25	82.3	27.9	90.6	32.6	97	36.1	1957	74.0	23,3	68	20.0	1961
26	83.0	28.3	92.4	33.6	100	37.8	1965+	73.6	23.1	67	19.4	1961
27	83.4	28.6	92.4	33.6	100	37.8	1965	74.5	23.6	70	21.1	1975
28	83.5	28.6	92.6	33.7	99	37.2	1955	74.3	23,5	68	20.0	1970
29	83.2	28.4	92.2	33.4	97	36.1	1965	74.2	23.4	69	20.6	1968
30	83.9	28.8	93.4	34.1	104	40.0	1954	74.4	23.6	70	21.1	1968*
31	83.2	28.4	92.4	33.6	105	40.6	1954	74.0	23.3	67	19.4	19764
Monthly	84.7	29.3	94.4	34.7	108	42.2	1962	75.1	23.9	65	18.3	1947

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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5725 DAILY AVERAGEEXTREME TEMP MAR 1976

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## DAILY AVERAGE/EXTREME TEMPERATURES

12925 CHASE

CHASE FIELD, TX.

1945-1946 1954-1977

SEPTEMBER

STATION

STATION NAME

YEARS

MONTH

	MEAN T	EMP		M	AXIMUM TE	MP			N	INIMUM TE	MP	
	AVERA	GE	AVERA	GE	EXTR	EME		AVERA	GE	EXTRE	ME	
DAY	°F	°c	°F	°c	°F	°c	DATE	°F	°c	°F	°c	DATE
1	83.7	28.7	92.4	33,6	99	37.2	1954	75.0	23,9	70	21.1	1975
2	83.6	28.7	93.0	33.9	99	37.2	1965+	74.3	23,5	69	20.6	1945
3	83.5	28.6	92.2	33.4	99	37.2	1965	74.8	23,8	65	18,3	1974
4	83.1	28.4	92.5	33.6	100	37.8	1977*	73.7	23,2	60	15.6	1974
5	81.9	27.7	90.9	32.7	101	38.3	1977	72.9	22,7	57	13.9	1974
6	81.7	27.6	90.5	32.5	97	36.1	1966	72.8	22,7	58	14.4	1974
7	82.1	27.8	91.4	33.0	97	36.1	1971*	72.8	22,7	60	15.6	1974
8	82.3	27.9	91.8	33.2	98	36.7	1963#	72.9	22,7	60	15.6	1974
9	82,3	27.9	91.9	33,3	99	37.2	1965	72.8	22,7	63	17,2	1957
10	81.8	27.7	90.6	32,6	104	40.0	1965	73.0	22,8	63	17.2	1974
11	81,3	27.4	90.5	32.5	103	39.4	1965	72.2	22,3	64	17.8	1968
12	81.0	27.2	90.4	32,4	104	40.0	1965	71.7	22.1	58	14.4	1959
13	79.9	26.6	89.1	31.7	99	37.2	1977	70.9	21.6	63	17.2	1977
14	79.7	26.5	88.8	31.6	96	35.6	1967	70.8	21.6	60	15.6	1945
15	81.1	27.3	91.0	32.8	99	37.2	1965	71.4	21.9	62	16.7	1945
16	81.8	27.7	91.3	32.9	99	37.2	1909#	72.2	22.3	63	17.2	1945
17	81.3	27.4	90.2	32.3	96	35.6	1965+	72.5	22.5	65	18.3	1961
18	80.9	27.2	90.1	32.3	96	35.6	1965	71.7	22.1	60	15.6	1968*
19	80.8	27.1	89.8	32.1	97	36.1	1977	71.9	22.2	60	15.6	1971*
20	81.0	27.2	89.3	31.8	98	36.7	1956	72.6	22.6	58	14.4	1971
21	80.9	27.2	89.4	31.9	98	36.7	1954	72.3	22.4	62	16.7	1975
22	79.9	26.6	88.3	31.3	95	35.0	1977	71.6	22.0	55	12.8	1975
23	79.2	26.2	87.4	30.8	94	34.4	1977+	71.0	21.7	50	10.0	1975
24	79.5	26.4	88.8	31.6	95	35.0	1977+	70.2	21.2	49	9.4	1975
25	78.9	26.1	87.7	30.9	97	36.1	1977	70.0	21.1	54	12.2	1975
26	78.1	25.6	87.2	30.7	97	36.1	1977	69.0	20.6	47	8,3	1975
27	76.5	24.7	86.1	30.1	98	36.7	1977	67.2	19.6	55	12.8	1975+
28	76.7	24.8	86.4	30.2	95	35.0	1977+	66.9	19.4	54	12.2	1967
29	76.9	24.9	87.4	30.8	97	36.1	1977	66.4	19.1	54	12.2	1967
30	76.0	24.4	87.0	30.6	98	36.7	1977	64.9	18,3	34	12.2	1945
31												
Monthly	80.6	27.0	89.8	32.1	104	40.0	1965	71.4	21.9	47	8.3	1975

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

5725 DAILY ANTRAGE/EXTREME TEMP MER 1978

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# DAILY AVERAGE/EXTREME TEMPERATURES

CHASE FIELD. TX.
STATION NAME 12925

1945-1946 1954-1977

OCTOBER

STATION

YEARS

MONTH

	MEAN TI	EMP		M	AXIMUM TE	MP			٨	INIMUM TE	MP	
	AVERA	GE	AVERA	GE	EXTR	EME		AVERAC	E	EXTRE	ME	
DAY	°F	°c	°F	°c	°F	°c	DATE	°F	°c	°F	°c	DATE
1	75.0	23.9	85.3	29.6	96	35.6	1977	64,8	18.2	51	10.6	1974
2	75.3	24.1	85.4	29.7	99	37.2	1977	65,2	18,4	55	12.8	1958
3	75.8	24.3	85.1	29.5	94	34.4	1956	66.5	19.2	49	9,4	1975
4	75.1	23.9	83.9	28.8	92	33.3	1966	66.4	19.1	44	6.7	1975
5	75.3	24.1	84.4	29.1	93	33.9	1960	66.2	19,0	46	7.8	1975
6	76.6	24.8	86.6	30.3	95	35.0	1945	66.5	19,2	47	8,3	1975
7	76.0	24.4	86.4	30.2	94	34.4	1962+	65.6	18.7	49	9,4	1964
8	76.2	24.6	87.4	30.8	99	37.2	1977	64.9	18,3	48	8,9	1976
9	75.8	24.3	86.1	30.1	100	37.8	1962	65.5	18,6	47	8,3	1976
10	75.4	24.1	85.4	29.7	95	35.0	1962	65.6	18,7	49	9,4	1976
11	75.5	24.2	85.1	29.5	93	33.9	1962	65.8	18,8	51	10.6	1976
12	75.0	23.9	85.0	29.4	93	33.9	1969*	65.3	18,5	43	6,1	1977
13	74.6	23.7	84.6	29.2	93	33.9	1968	64.6	18.1	34	1.1	1977
14	74.2	23.4	84.4	29.1	95	35.0	1954	64.0	17.8	41	5.0	1977
15	72.7	22.6	82.6	28.1	95	35.0	1962	62.7	17.1	46	7.8	1969
16	71.5	21.9	81.9	27.7	92	33.3	1968*	61.1	16,2	45	7.2	1974
17	71.4	21.9	82.2	27.9	91	32.8	1972*	60.7	15.9	46	7,8	1974
18	72.0	22.2	83.2	28.4	92	33.3	1972	60.7	15.9	48	8,9	1976
19	70.4	21.3	81.6	27.6	90	32.2	1969+	59.1	15.1	40	4.4	1976
20	69.7	20.9	81.3	27.4	94	34.4	1962	58.2	14.6	37	2.8	1976
21	71.7	22.1	82.1	27.8	91	32.8	1972+	61.2	16.2	45	7.2	1976
22	72.3	22.4	83.1	28.4	93	33.9	1966	61.4	16.3	48	8.9	1965
23	73.1	22.8	83.9	28.8	92	33.3	1970	62.4	16.9	44	6.7	1945
24	70.4	21.3	80.0	26.7	91	32.8	1970	60.8	16,0	51	10.6	1969
25	69.2	20.7	80.2	26.8	90	32.2	1970	58.2	14.6	41	5.0	1945
26	68.9	20.5	78.8	26.0	91	32.8	1959	59.0	15.0	42	5.6	1957
27	68.6	20.3	79.3	26.3	92	33.3	1970	57.9	14.4	38	3,3	1957
28	69.1	20.6	78.7	25.9	88	31.1	1971	59.4	15.2	38	3.3	1957
29	69.3	20.7	79.0	26.1	88	31.1	1968	59.6	15.3	43	6.1	1970
30	69.1	20.6	79.8	26.6	90	32.2	1968	50.3	14.6	42	5.6	1976
31	69.8	21.0	80.4	26.9	89	31.7	1977+	59.3	15.2	40	4.4	1967
Monthly	72.7	22.6	83.0	28.3	100	37.8	1962	62.5	16.9	34	121	1977

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

5725 DATLY AVERAGE/EXTREME TEMP MAR 1978

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION STATION NAME

1945-1946 1954-1977

NOVEMBER

YEARS

MONTH

	MEAN TE	EMP		M	AXIMUM TE	MP			N	INIMUM TE	MP	
	AVERA	GE	AVERA	GE	EXTR	EME		AVERAC	GE .	EXTRE	ME	
DAY	°F	°C	°F	°c	°F	°c	DATE	°F	°C	°F	°c	DATE
1	68.9	20.5	79.8	26.6	89	31.7	1968+	58.0	14.4	40	4.4	1969
2	67.3	19.6	78.0	25.6	89	31.7	1945	56.6	13,7	35	1.7	1966
3	64.5	18.1	73.6	23.1	86	30.0	1973	55.4	13.0	38	3,3	19694
4	63.6	17.6	74.4	23.6	89	31.7	1973	52.9	11.6	35	1.7	1967
5	64.9	18.3	75.4	24.1	89	31.7	1963	54.3	12,4	39	3,9	19704
6	65.3	18.5	75.1	23.9	91	32.8	1963	55.4	13.0	38	3,3	1959
7	65.2	18.4	75.2	24.0	93	33.9	1969	55.3	12.9	33	0.6	1959
8	65.0	18.3	74.8	23.8	94	34.4	1969	55.2	12.9	37	2,8	1959
9	63.9	17.7	74.1	23.4	90	32.2	1969	53.7	12.1	39	3,9	1956
10	63.1	17.3	73.3	22.9	84	28.9	1962	52.8	11,6	38	3,3	1977
11	65,5	18.6	77.2	25.1	91	32.8	1969*	53,8	12.1	32	0.0	1977
12	66.6	19.2	77.6	25.3	95	35.0	1969	35,6	13.1	35	1.7	1977
13	66,3	19.1	77.6	25.3	88	31.1	1945	55.0	12,8	31	-0,6	1975
14	64.3	17.9	73.4	23.0	85	29.4	1973*	55.2	12,9	34	1.1	1959
15	64.9	18.3	75.6	24.2	87	30.6	1955	54.1	12.3	29	-1.7	1969
16	66.2	19.0	76.5	24.7	87	30.6	1962	55.9	13,3	35	1.7	1970
17	65.2	18.4	74.2	23.4	88	31.1	1958	56.2	13,4	32	0.0	1959
18	64.0	17.8	73.1	22.8	86	30.0	1973	54.9	12,7	27	-2.8	1959
19	63.2	17.3	72.4	22.4	85	29.4	1974	53,9	12,2	33	0.6	1969
20	63.3	17.4	74.3	23.5	85	29.4	1977*	52.2	11.2	26	-3,3	1969
21	62.3	16.8	73.1	22.8	87	30.6	1965	51.4	10,8	30	-1.1	1969
22	62.0	16.7	71.8	22.1	88	31.1	1970	52.2	11,2	34	1.1	1975
23	60.6	15.9	70.5	21.4	82	27.8	1968*	50.6	10,3	27	-2.8	1975
24	60.9	16-1	71.0	21.7	87	30.6	1973+	50.8	10.4	31	-0.6	1970
25	62.7	17.1	75.0	23.9	88	31.1	1965	50.3	10,2	31	-0,6	1975
26	65.4	18.6	76.3	24.6	91	32.8	1965	54.5	12,5	34	1.1	1972
27	61.2	16.2	72.4	22.4	84	28.9	1972*	50.1	10,1	31	-0.6	1975
28	57.6	14.2	67.3	19.6	83	28.2	1945	48.0	8,9	28	-2.2	1976
29	55.2	12.9	65.6	18.7	83	28.3	1975	44.8	7.1	26	-3.3	1976
30	55.2	12.9	65.6	18.7	83	28.3	1970	44.8	7.1	26	-3.3	1976
31												
Monthly	63.5	17.5	73.8	23.2	95	35.0	1969	53.2	11.8	26	-3.3	1976*

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

505 DAILY AVERAGE/EXTEME TEMP MAR 1978

O IPAB

(B11)

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

12925

CHASE FIELD, TX.

1945-1946 1954-1977

DECEMBER

STATION

STATION NAME

YEARS

MONTH

	MEAN TE	MP		M	AXIMUM TE	MP			٨	MINIMUM TE	MP	
	AVERAG		AVERA	GE	EXTRE	ME		AVERAG	E	EXTRE	ME	
DAY	°F	°C_	°F	°c	°F	°c	DATE	°F .	°C	°F	°C	DATE
1	57.3	14.1	67.7	19.8	83	28.3	1954	47.2	8,4	32	0.0	1972
2	60.2	15.7	71.6	22.0	85	29.4	1964	48.9	9,4	35	1.7	1975
3	60.8	16.0	72.2	22.3	85	29.4	1973	49.4	9,7	31	-0.6	1976
4	60.6	15.9	71.6	22.0	89	31.7	1977	49.6	9,8	34	1.1	1968
5	61.4	16.3	71.0	21.7	88	31.1	1977	51.8	11.0	31	-0.6	1945
6	59.3	15.2	70.0	21.1	83	28.3	1966	48.6	9,2	32	0.0	1964
7	57.2	14.0	67.6	19.8	83	26.3	1966	46.8	8,2	32	0.0	1976
8	57.6	14.2	68.2	20.1	83	28.3	1977	47.0	8,3	28	-2.2	1976
9	57.4	14.1	66.5	19.2	82	27.8	1967	48.2	9.0	38	3.3	1955
10	55.8	13.2	65.6	18.7	80	26.7	1970	46.0	7,8	31	-0.6	1972
11	54.9	12.7	66.2	19.0	80	26.7	1975	43.7	6.5	28	-2.2	1966
12	54.9	12.7	65.4	18.6	85	29.4	1968	44.3	6,8	25	-3.9	1966
13	54.4	12.4	64.4	18.0	81	27.2	1975	44.4	6,9	27	-2.8	1966
14	55.2	12.9	65.0	18.3	83	28.3	1973	45.5	7.5	30	-1.1	1966
15	53,3	11.8	63.2	17.3	79	26.1	1969	43.3	6.3	30	-1.1	1945
16	54.1	12.3	64.5	18.1	85	29.4	1977	43.6	6.4	30	-1.1	1972
17	56.6	13.7	68.2	20.1	79	26.1	1956	45.0	7.2	27	-2.8	1972
18	58.1	14.5	69.1	20.6	85	29.4	1968	47.0	8.3	29	-1.7	1964
19	56.2	13.4	65.5	18.6	79	26.1	1977	47.0	8.3	28	-2.2	1945
20	56.1	13.4	66.3	19.1	80	26.7	1971	45.8	7.7	28	-2.2	1945
21	55.9	13.3	66.2	19.0	81	27.2	1971+	45.6	7.6	25	-3.9	1973
22	56.9	13.8	68.1	20.1	84	28.9	1970	45.7	7.6	29	-1.7	1977
23	58.3	14.6	68.0	20.0	83	28.3	1955	48.7	9.3	26	-3.3	1963
24	58.1	14.5	69.2	20.7	85	29.4	1973	47.1	8.4	30	-1.1	1968
25	57.1	13.9	67.7	19.8	86	30.0	1964	46.5	8.1	36	2.2	1963
26	56.7	13.7	67.9	19.9	84	28.9	1968	45.0	7.6	34	1.1	1976
27	58.7	14.8	69.2	20.7	87	30.6	1968	48.3	9.1	32	0.0	1972
28	57.5	14.2	68.6	20.3	84	28.9	1973	46.3	7.9	33	0.6	1961
29	57.2	14.0	66.8	19.3	83	28.3	1970	47.6	8.7	31	-0.6	1966
30	58.3	14.6	67.2	19.6	86	30-0	1973	49.3	9.6	34	1.1	1969
31	34.6	12.6	64.1	17.8	80	26.7	1965+	45.1	7.3	25	-3.9	1976
Monthly	57.1	13.9	67.5	19.7	89	31.7	1977	46.7	8,2	25	-3.9	1976

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

5725 DAILY AVERAGEEXTREME TEMP MAR 197

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MAXIMUM TEMPERATURE

0

5723 Extreme Values Jan 1969

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12925

CHASE FIELD, TEXAS

45-461 54-77

YEARS

#### WHOLE DEGREES FAHRENHETT

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL
45	,		97	93	93			102	96	95	89	81	-
46	81	83	93	90				•••					
54	-								99	95	83	86	
55	79	80	93	96	95	97	99	99	92	90	87	84	99
56	83	87	87	91	91	98	97	99	98	94	85	80	99
57	87	19	87	91	91	96	101	101	99	87	86	78	101
58	76	83	82	104	96	96	98	108	96	69	88	82	104
. 59	62	88	89		96	96	99	102	96	91	86	75	102
60	79	91	85	90	90	101	106	49	95	94	86	78	106
61	78	81	87		92	94	96	98	98	91	85	82	98
62	82	92	86	100	96	100	103	108	96	100	91	78	108
63	83	88	91	102	94	96	96	100	98	92	91	76	102
64	77	76	82	98	96	90	100	98	96	90	86	86	100
65	86	79	90	93	90	96	104	103	4 -	92	91	61	
66	78	77			94			103	99			83	
67	80	1 4 5	93	93	102	99	101	101	97	91	86	82	
68	78	80	83	95	94	97	98	101	100	94	89	87	101
69	93	86	87	90	94	104	105	106	79	94	99	82	106
70	82	84	87	91	89	94		101	94	92	88	84	
71	92	83	96	93	94		98	96	97	91	87	62	91
72	87	85	96	94	92	98	98	95	96	92	86	84	96
73	81	81	89	90	97	95	98	95	13	92	19	86	96
74	88	87	94	91	96	96	101	30	94	89	85	84	101
75	86	19	91	- 99	91	93	95	95	90	91	87	61	99
76	84	61	92	86	90	95	95	90	95	89	65	72	99
77	80	89	84	- 48	93	99	105	105	101	99	85	99	10:
MEAN	82.6	84.3	89.2	93.1	93.6	97.1	99.5	100.3	96.4	72.3	87.2	81.7	101.3
S. D.		4.477						3.390					3,14
OTAL OBS.	744	650	744	720	744	660	651	744	720	744	720	775	061

NAVWEASERVCOM

MAXIMUM TEMPERATURE (FROM DAILY OBSERVATIONS)

CHASE FIELD, TEXAS

45-461 54-77

HADLE DEGREES FAHRENHEIT /BASED ON LESS THAN FULL MONTHS/

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
45						95 29	101						MAX TEMIDAYS MAX TEMIDAYS MAX TEMIDAYS MAX TEMIDAYS MAX TEMIDAYS
54								105					MAX TEM
65					i				104				MAX TEM
66			90	89		100	100			93	89		MAX TEM
67		81 26											DAVS
70							97						MAX TEM
						) e							
			1										- 40
MEAN													
S. D.			1										
TOTAL OSS.		- 20				1.							

NAVWEASERVCOM

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5723 Extreme Values Jan 1969

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(5)

1001

MINIMUM TEMPERATURE

12925

CHASE PIELD TEXAS

45-461 54-77

YEARS

#### WHOLE DEGREES FAHRENHETT

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	MONTHS
45			46	39	52			70	54	41	37	28	•
46	30	33	40	50						0.1	-	7	
54									64	45	42	33	
55	31	31	32	54	64	58	73	73	71	47	33	30	30
56	29	31	37	50	62	69	72	60	65	53	37	39	29
57	28	45	40	45	55	64	73	71	58	38	34	26	26
58	34	27	35	48	59	70	72	71	61	50	36	30	27
59	23	37	37	46	64	67	72	72	58	48	27	34	23
60	29	26	33	48	54	69	73	70	63	49	37	32	26
61	29	32	44	45	54	68	71	97	60	47	48	30	29
62	15	33	31	43	50	65	70	72	63	51	39	31	15
63	18	28	40	52	62	68	68	72	59	58	37	26	18
64	25	31	40	45	62	57	71	71	63	43	39	29	25
65	26	32	32	54	56	69	74	72		48	39	36	
66	20	30			60			69					
67	30		39	57	50	66	65	05	54	40	35	29	
68	27	31	36	47	59	65	71	99	56	47	39	30	27
69	26	40	38	53	55	63	71	74.	64	45	26	32	56
70	18	29	34	46	50	60		98	56	43	31	37	
71	32	28	35	47	62	71	73	72	58	58	42	35	26
72	26	22	40	42	62	65	69	70	59	**	34	27	55
73	18	26	40	35	51	67	70	99	63	53	35	25	18
74	30	23	36	43	60	61	69	72	55	45	33	29	23
75	19	30	35	- 41	59	59	67	97	47	44	27	33	19
76	21	27	41	47	54	68	71	97	95	37	26	25	57
77	20	23	36	44	64	69	71	- 60	63	,	31	29	50
MEAN	25.2	30.7	37.4	46.7	\$8.2	65.4	70.8	7090	39,8	46,2	35.0	30.7	23,8
\$. D.	5.346	5.112	3.774	3.112	4.260	4.100	2.211		4,951	5,990		3.895	4,35
OTAL OBS.	746	650	744	720	744	660	651	744	190	744	720	744	855

NAVWEASERVCOM

5723 Extreme Values Jan 1969

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MINIMUM TEMPERATURE (FROM DAILY OBSERVATIONS)

CHASE PIELD, TEXAS

45-461 54-77

WHOLE DEGREES FAHRENHEIT /BASED ON LESS THAN FULL MONTHS/

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
45						65	73						MIN TEMP
54								74					MIN TEMP
65									55 29				MIN TEMP
66			33	51		61	73		64	45	35	25 30	MIN TEMP
67		30 26											MIN TEMP
70			100		8		72						MIN TEMP DAYS MIN TEMP DAYS MIN TEMP DAYS MIN TEMP DAYS MIN TEMP DAYS MIN TEMP DAYS
for a						0.							
MEAN					Negation 1								
\$. D.													
S. D. TOTAL OBS.													

NAVWEASERVCOM

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5723 Extreme Values Jag 1969

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925 STATION	CH	ASE	FIEL	D. T	TATION N	ME				_73	-77			Y	EARS			JAN MONTH				
																			PAGE	(L.S.T.)		
Temp.										E DEPRESSION (F) TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL Dr. B. 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 23 D.B./W.B. Dry Builb Wet Bu												
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24			2 - 30 ≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
88/ 87														.1			1	1				
86/ 85						-	-		.1						• 1		2	2				
84/ 83			2 2 7					.2			• 1						3	3				
82/ 81						.1	, 3		.1						-		7					
80/ 79					.2	.2	.2				• 1		.1				11	11				
78/ 77		-			. 2		• 1	_	.1		•2	-1			-	_	14	14				
76/ 75		•1		.6	.3	,1		.1		,1	•3	• 1					21	21				
74/ 73			,0			3	-	. 2	12	-		-1			-		39		- 1	1		
72/ 71		1.0	6.8		.2	.3	. 5		,1	,3							42	42	12			
70/ 69	• 1	. 6	10	. 2	.5	-					. 4	-			-		43	43	38	16		
68/ 67	• 1	1.1	1.0	, 2	.3	.3	.2	.2	.2		• 2						46	46	39	26 38		
64/ 63	• 1	1.2	, 5	.6	.4		,5	96		.2	•1				-		49		35	39		
62/ 61	.3	1.4	. 5	.6	. 2	.2	.2	.1	.2								49	100000	44			
60/ 59	.2	2.0	. 6		.4				•1	-			-				58	58	61	32		
58/ 57	.5	1.2	.6		. 5	.4	.6	.2	••								53	53	55	53		
56/ 55	.3	1.2	,5	.5	.3	.2	,2					-					42		54			
54/ 53	1.3	1.3	1.2	.5	. 3	.7	. 2	.2									71	71	65	49		
52/ 51	.5	1.6	1.0		.7												57	57	58	49		
50/ 49	1.0	2.0	1.0	. 6	. 2	.4	1										65	65	70	1 15 5		
48/ 47	.6	2.7	, 9		.4		,2										71	71	80	-		
46/ 45	.7	2.5	1.1	. 3	. 8	.2											72	72		The second second		
44/ 43	1.1	1.9	1.0	.6	• 3	.3	.2										67	68	81			
42/ 41	1.8	1.1	. 8	. 8	. 5	.1						100					63	63	76	77		
40/ 39	1.0	1.5	1.4	.3	.2	.1								1			54	54	54			
38/ 37	1.3	.7	. 6	.6	.2												42	42	74	78		
36/ 35	.5	.8	.5	.7	.2	.1			7								34	34	47	42		
34/ 33	.7	.6		.4													27	27	43	44		
32/ 31	1.0	.4	.3	. , 3					1								27	27	36			
30/ 29	1.4	.4	, 3	.1													27	27	37	54		
28/ 27	.4	.4	. 2														16	16	20			
26/ 25	.6	.1		.1													11	11	20			
24/ 23	.2	.1	.2			N. S.	4.45			1							6	6	10			
22/ 21	.2	- 1															3	3	4	20		
Element (X)	Σχ²			Σχ		X	σ <sub>x</sub>		No. Ol	)s.					o. of Hours w							
Rel. Hum.								-	-		-	≤0 F		32 F	≥67 F	≥73 F	≥80 F	≥93	F	Total		
Dry Bulb						-		-	-				-		-	+	-	+	-			
Wet Bulb		-				-		-	-		-		-			+		+	-			
Dew Point									200													

.0

5 ON	CH	ASE	FIEL	D. T	EXAS					73	-77			YE	ARS				JA	<u>v</u>		
																		1	PAGE 2			
р.										DEPRES							TOTAL		TOTAL			
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28 29	- 30 ≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
19	.1																1	1	4	22		
17				-						-					-	-	-			17		
15																				6		
11						1														6		
9																				2		
7															- 21					1		
5										-										2		
3	16-1	28.6	17 5	11 9	8.2	5.4	4.7	3.0	11.7	1.0	1.3	.2	.2	. 1	:1			1240		1239		
-	1411	2010	1100			2.0	7.		1.	1.00	110		• •	•	•		1239		1239	,		
					-					-					-	_	-					
							1															
																-						
			-							-							-					
							1															
										1												
								1														
										-						_						
				-		7				-			-		-							
														-								
(X)		$\Sigma_{X}^{2}$			Σχ	T	X	$\sigma_{x}$	T	No. Of	s. T				Mean No	of Hours w	ith Tempera	ture				
lum.			9717		9212	9 7	4.4		16	12		±0 F		32 F	≥67 F	≥73 F	≥80 F	≥ 93		Total		
lulb		364	1073		6505	5 5	2,5	13.5	66	12	40				136.			0		744.0		
Bulb		301	9408		5936	5 4	7,9			12	39		Actor Sales Sales Sales	78.7	55.			-	_	744.0		
oint		252	8732		5330	9 4	3.0	13.7	67	12	39		18	84,3	25.					744.0		

12925 CHASE FIELD, TEXAS

73-77

PAGE 1

Temp.									ERATURE						,	,		TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 3	0 ≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Poi
0/ 89							1					. 1						1	1		
8/ 87										.1					-			1	1		
6/ 85								.1		.1								2	2		
14/ 83									.2				:1				-	3	3		
32/ 81						. 2	.3			.1					.1			7	7		
0/ 79					-1	.3	-	.1	.1			.1	.1					9	9		
18/ 77					.2	.7	,3	,2	.4		• 1		. 3					24			
6/ 75				.3	.3	• 3	.4	, 3	.2	.2		.5	:1		-		-	32	32		
14/ 73			. 2	• 7	.4	, 3	.5	.4	.1	, 3	• 2	• 1	.1					36			
2/ 71		. 4	. 6	. 0	.0	.7	,2	.4	.3	.3	.3	.2	-,		-	-	+	49	49		
0/ 69		1.3	• 7	. 5	.4	.3	,2	.2	.4	.1	.4	• 1	. 7					53	53	27	
8/ 67	• 2	. 9	1,2	, 4	. 4	.2	,4		. 2	. 2	.4				-	-	+	58	58	49	2
6/ 65	5	1.5	. 8	.5	• 4	• 4		.4	.4	• 3	• 1							65	65	47	
4/ 63	1.0			.0	. 4	.3			• 4	.4						-		74	74	77	4
2/ 61	1.5	2.0	. 5	* 4	• •	.7	,3	, 6 , 4	, 5	,1								70	70	75 65	8
0/ 59	1.03	104	106	9 4			, 6 , 3	•	.3	• 1	-				-	-	+	47	47	55	6
	1.5	. 6		. 8	.2	.3	, ,	, 1	:2								1	63	63	60	5
4/ 53	. 8	2.2	. 7	-	-	• •	9 1	•	• 6		-	-		-	-	-	-	67	67	72	
2/ 51	.6	2.4		. 3	.5	.8	.5	•1										44	44	79	5 4 4 5 4 4
0/ 49	.3	1.7			1.1	, 3	**	.1				-		-	-	-	-	61	61	68	-
8/ 47	. 4	2.0	1.0	1.7		. 8	.4	••										71	71	80	1
6/ 45	.7	1.2				,1	.2					-				-	+	41	41	63	-
4/ 43	.6	1.0	.6	5 6	. 2	. 1	•-					1					1	35	35	60	4
2/ 41	.5	1.2		.6	.2										1		1	38	38	65	4
0/ 39	. 4	.6	. 5	. 4	. 3				100									25	25		4
8/ 37	.3	. 8		.6													1	23	23		5
6/ 35	.2	.5	. 6	.4									5					20	20		5
4/ 33		.2	. 4	.1														8	8	18	4
2/ 31	. 1	. 2	.4															7	7	18	4
0/ 29	.2	.3	.3													in par		8	8	14	4
8/ 27	.1	.2	.1															4	4	7	2
6/ 25	.2	.2																4	4	8	2 2
4/ 23																				1	2
lement (X)		$\Sigma_{\chi^2}$			Σχ		X	$\sigma_{x}$		No. Ob	s.				Mean	No. of	Hours w	ith Tempero	ture		
Rel. Hum.			8				N. S.					±0 F		32 F	≥ 67	F	≥73 F	≥80 F	≥ 93	F	Total
Dry Bulb				10																	
Wet Bulb			Dia 14						9												
Dew Point						N. T.															

NAVWEASERVCOM

2925 STATION	CH	HASE	FIEL	D. T	EXAS	it .				_73	-77			Y	EARS					FEB		
																				PAGE	2 (L.S.T.)	
Temp.								LB TEMPE										TOTAL	TOTAL			
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Poi	
22/ 21																					20	
20/ 19													18								18	
18/ 17													8									
16/ 15																						
14/ 13																	R. A. I					
10/ 9																						
OTAL	12.2	25.	115.5	11.5	8.8	7.9	5.3	3.7	3.9	2.5	1.5	1.1	. 9		.1				1128		112	
																		1128		1128		
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							PHOTO I															
		V. 2				$\overline{}$	_															
lement (X)		Σχ2			Σχ	-	X	σ <sub>X</sub>	-	No. Ob								th Tempera				
Rel. Hum.		01	78164		7894	4 7	0.0	24.0	7	11		≤0 F		13.7	≥67		68.5	≥80 F	≥93		Total	
Dry Bulb			9901		6468	2 2	113	11.93	2	11			-	28.6	103	. 0	90,3	10.	-		672.	
Wet Bulb Dew Point			0132		5813; 5137			10.50		-11			-	37.6	40	.9			+		672.	
Jew Point		63	1555		2131		242	13016		11	.0	-		31.0		. 7					672.	

/EASERVCOM

CHASE FIELD, TEXAS 73-77 PAGE 1 PSYCHROMETRIC WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 Wet Bulb Dew Point 94/ 93 92/ 91 90/ 89 6 88/ 87 SUMMUS 86/ 85 15 . 1 84/ 83 28 82/ 81 .2 29 .2 29 51 62 117 .5 •1 78/ 77 51 62 76/ 75 .2 35 98 37 73 . 5 117 72/ 71 116 101 70/ 69 107 149 117 109 89 57 55 68/ 67 103 103 101 127 66/ 65 101 64/ 63 103 60 60 62/ 61 89 60/ 59 41 51 58/ 57 35 35 50 . 7 29 55 56/ 54/ 53 34 34 60 55 42 52 51 23 20 17 11 22 34 52/ 24 33 23 9 50/ 49 43 41 43 0 48/ 47 23 46/ 45 0 40/ 39 41 38/ 37 ,1 25 24 22 18 0 36/ 35 34/ 33 32/ 31 30/ 29 28/ 27  $\sigma_{x}$ Mean No. of Hours with Temperature ≤ 32 F ≥80 F 0 ≥73 F ≥93 F Total Rel. Hum. ≤0 F Dry Bulb Wet Bulb 0 **Dew Point** 

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CHASE FIELD, TEXAS 73-77 12925 PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 23 21 D.B./W.B. Dry Bulb Wet Bulb Dew Poin 26/ 25 24/ 23 TOTAL 1240 1240 .1 7.223.922.312.3 8.6 6.4 6.0 3.7 2.9 1.9 2.2 1.4 . 6 1240 1240 SUMMUS IMI Element (X) 89713 72.3 21.792 82456 66.5 10.239 74969 60.5 9.526 69035 55.7 12.724 7079101 1240 ±0 F ≥67 F ≥73 F ≥80 F ≥93 F Total Rel. Hum. 409.8 214.2 .6 250.2 30.6 45.0 169.8 12.0 744.0 744.0 5612956 1240 65.4 1240 Wet Bulb 4044021

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																			9	AGE HOURS	.S.T.)
							WET BUL											TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Poi
												.1						1	1		
_	-									-	•1					2.5		1	1		
								• 1	. 1	-						.1		3	3		
						, 5	**	. 2	1		•1	• 2	1		•			22	22		
1					. 3	. 3	,67,7	. 2	• 1	.2		• •						23	23		
				. 2	.6	,7	.7	.8	,7	, 5	.2		.1					23 54	23 54		
					1.2	1.0	.7	. 5			.1	.2						70	70	-	
				2,2	2.0	.6	.9	.6	,4	,2	.3	.2	,1					98	98	2	
-	.1	1.9	4.5		.5	,5	,5	, 2	-1	,3	•2	.1	• 1				-	135	135	83	15
		2.5	4,5	1.8	.3	.4	.3	.1	.3	.2	•1	. 2						136	136	141	79
	.6	2.2	2:7	,8	.4	,2	,5			,2	.2							95	95	200	139
_		2.6	1.8	.4		-1	.3	.1	.1	.2	.1							73	73	146	160
		2.5	1,8	.6	.4	.2	.3	,4	,1	,2								79	79	119	14
-	-	2.0		_	- 4			.2	:1	-1	-	-					-	68	68	89	10
		1.0	. 8	.6	.7	.2		,3	• 1									42	42	89	80
_		1.4	,1	,2	.1		,1											23	23	57	8
_	.2	1.0	.2	.2		.4	-1											25	25	48	50
	. 1	. 4	.3	.1			.1											12	12	37	5
-	-	3			- 2		-1	-1		-					1			14	16	31	3
		.2	.2	.1	.3													10	10	17	29
	. 2	•••	,1		••	,1												4	4	17	2
			3	.1		-1												6	6	6	_1
			.1						1									1	1	12	•
-		•						-		-		+			-					-	
	1	• 1																1	1	2	1
Ī					100															1	10
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		$\Sigma_{X}^{2}$			Σχ	-	X	σμ		No. Obs					Mean	No. of 1	lours wi	th Temperat	hura .	1	
						-	^	- 4	-	140. OB		±0 F	1	32 F	≥67 F		73 F	≥80 F	≥93 F	1	otal
															1						

2925 STATION		ASE	FIEL	ا ول	EXAS	ut .				_73	•11			Y	EARS					PAGE	
							WET DI	LB TEMPE	DATIIDE	DEDDESS	ION (E)									PAGE HOURS	(L.S.T.)
Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10						21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31	TOTAL D.B./W.B.	Dry Bulb		Dew Point
26/ 25																					2
24/ 23								4.7					;3		*.						4
DTAL	1.	21.4	25.0	12.0	7.0	0.1	0.	4.1	2. (	2.1	1.0	.9	.,		•1	• 1		1200	1200	1200	1200
		1																			
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		-							-								-				
Sement (X)		Σχ²			Σχ		X	$\sigma_{x}$		No. Ob								Temperat			100
Rel. Hum.			7009		8652	5 7	2.1	19,1	60	12		≤0 F	5	32 F	≥ 67 F		≥73 F	2 80 F	≥93		Total
Dry Bulb Wet Bulb			7013		7705			7.7		12	00		+		384	2 3	36,0	87.	1	.2	720.0
Dew Paint	-		7219		7182			10.7		12				23.4	238	2	27.6				720.0

125	СН	ASE	FIEL	D. T	EXAS	HE				_73	-77			YE	EARS			_	MA	TH
																			PAGE HOURS	L.S.T.)
femp.	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10		LB TEMPE				21 - 22	23 - 24	25 . 26	27 - 28 29 -	30 >31	TOTAL D.B./W.B.	Dry Bulh	TOTAL Wet Bulb	Daw Poin
5/ 95			-	-		- 10		10 11			• 1	• 1	.1	.1	27 20 27	50 50.	4	4		Dem 10
1 93							:1	: 2	.2	.2	i	.1	• •	••			10	10		
2/ 91							.1	.2	.2	.2	• 2	•2	4	. 1			13	13		
1/ 89						.1	.4	1.2	.2		.4	.1	.2				33	33		
3/ 87						1.0	1,3	.8	.4	,2	• 1	.2	.1				50	50		
5/ 85					1.0	1.9			. 3	-1	.1						59	59		
/ 83			,1	.6	1.9		1.0	1.0	, 2		• 2						79	79		
2/ 81		• 1	.2	1,5	2.8	1.0		,7	,2	,1	•1						93	93	1	
79		2	1.9	100	2.0	1,1	,3	.3	.3	, 5	• 2						117	117	10	1
77	• 2	2.2	3.6	2.5	1.1	,4			• 1	, 3						-	131	131	67	6
1 73	.1	4.4		1.0	.3		.3	. 2	.1	.3							167	167	162	132
71	.2	2.7	3.9	.8	.4	.4	,3	, 2									110	110	218	222
1/ 69	- 7	2.1	2.4	.7	.6	.2	.2	.1									79	79	168	212
1 67	.1	.6	1.8	.8	.2												47	47	104	161
6/ 65		1.4	1.1	.6	,2	.1											43	43	72	104
/ 63		1.1	.7	,1	.3	.2											30	30	78	64
2/ 61		. 3	. 6	. 5	. 2												19	19	50	71
1/ 59		.6	,3	. 2													13	13	43	52
3/ 57			,2									-	-			-	3	3	25	38
/ 53		. 1	, 2	.1													2	2	10	17
2/ 51	-	•	•••															•	5	25
/ 49																			1	13
1/ 47																				16
6/ 45																				14
1 43																				1
AL	1.1	17.3	27.0	14.4	11.9	9.0	6.3	5,9	2.2	1.9	1.3	.6	. 4	.2		-	1545	1240		1240
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												-				+				
									1											
		$\Sigma_{\chi^2}$			Σχ	-	X	σ <sub>x</sub>	$\dashv$	No. Ob					Many No.	. Her.	h T			
Hum.			2663		9156	5 3		16.1	0.2	12		±0 F	1 -	32 F	Mean No. o	± 73 F	h Temperat	≥93 F		lotal .
y Bulb			6337		9456		6.3	7.2		12		-01	-	92 1		534.6				744.0
et Bulb			5165		8660		9.8	5.4		12						274.2	3.0			744.0
w Point		553			8239		6.4	6.7	11	12						165.6		-		744.0

12925 CHASE FIELD, TEXAS

73-77

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PAGE 1

PSYCHROMETRIC SUMMA JAN 68

Temp	).										DEPRES							TOTAL		TOTAL	
(F)	_	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	_	23 - 24	25 - 26	27 - 28 29 -	30 ≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Poir
100/				20									.1					1	1		
96/					-							• 2			-		-	2	- 2		-
94/							, 1	,2	.2			•1			. 1			21	21		
92/	91		-	-						_		.2		.,	- 1		-	50	50		
90/	(22)					• 4	1.0	2.7	2.7		.0			. 7				100	100		
88/				٠.		2.4						• 3						88	88		-
				• 1	1.1	3.2	2,9	1,1	1,2	• 1	, 2	•2						109	109		
84/	83		2			3.6	101	.0		1		• 4		-			-	75	75	15	
82/	79		• 2	1.5	3.2	1.2	.2	.3	.1		• 1		1					114	114	56	
78/	77	-	4.5								-	-						166	166	191	4
76/	75	• -	5 7	5.7	2.0	.6	.1		• 1									133	133	295	14
74/	73	1.2	4.4	3 7			-	-	.1	-	-							119	119	262	27
72/	71	1.2	1.9	3.2	.9	• •	.2			1							-	72	72	167	25
70/	69	.2	1.0	1 7			- 16	-	-	-	<b>-</b>	-						38	38	86	17
68/	67	• •	1.0	1.7	.2		.1											14	14	67	10
66/	65	.1	. 1	• •		• •				-	1							3	3	26	
64/	63	• •	. 1	. 1	.1	.1							Tele.					6	6	12	4
62/	61		.2	•	.1			-			1							3	3	10	1
60/	59	.1		: 1	••							*						2	2	7	i
58/	57	•••		••											-			-	-	3	•
56/	55																			1	1
54/				Report																	
52/	51														1						
50/																					
OTAL		3.2	19.2	23.4	12.6	10.4	7.7	7.8	6.9	4.6	2.7	1.2	.1	.1	.2				1200		120
								1	-	1	-	-						1200		1200	
•																					
												4									
			$\Sigma_{X}^{2}$			Σx										M N	-4 Wayne - 1				
Element					_	5982		X	OX		No. O		10 F	1.	32 F	Mean No. ≥67 F	of Hours wit ≥73 F	h lempera	≥ 93		Total
Rel. H				3299			2 4	4,9	1615	70		00	201	+-	32 F		637.2				
Dry B	-		45	5107		9619	7	0.2	3 0	4.		00		-	-		492.0				720.
Wet B		A. 150		7069		8830		3,6				00		-			368.4	610			720.
Dew P	oint		900	6976		8470	7	0.6	700	32		00				902.9	304.4	21	7		720.0

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CHASE FIELD. TEXAS 12925 73-77 PAGE 1 PSYCHROMETRIC SUMMA WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 Wet Bulb Dew Point 102/101 100/ 99 14 14 23 37 98/ 97 .4 .1 96/ 95 3,0 94/ 93 37 7 . 2 92/ 91 66 3.0 104 90 96 90/ 89 104 90 87 88/ 3.3 2.3 96 86/ 84/ 83 1.5 4.0 7.7 2,5 **%**Q 81 79 76 82/ 139 112 80/ 294 313 313 166 38 1.5 3.6 2.7 1,2 . 3 203 156 203 75 74/ 73 72/ 71 1.8 11 42 316 1.0 2.0 11 . 5 160 70/ 69 .4 68/ 67 68 66/ 65 33 64/ 63 16 0 62/ 61 58/ 57 TOTAL 1240 9.823.816.810.5 8.1 7.8 7.0 5.7 3.9 3.4 1.5 1.2 1240 1240 0 0 No. Obs. 0 7751263 95457 77.0 18.031 10 F ≤ 32 F ≥73 F Rel. Hum. 1240 ≥67 F ≥80 F 193 F Total 744.0 711.0 375.6 744.0 613.6 26.4 711.0 493.2 6.6 100837 81.3 6.981 93075 75.1 2.590 89749 72.4 3.052 744.0 744.0 744.0 1240 Dry Bulb 8260479 Wet Bulb 0 **Dew Point** 6507415 1240

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25	CH	ASE	FIEL	D. T	EXAS	rt .				_73	-77			YE	ARS				AU	<u>G</u>
																			PAGE	1 (L.S.T.)
р.								LB TEMPE									TOTAL		TOTAL	
F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28 29	- 30 ≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
103														. 1			1	1		
101				11.	-							.2	- 1		-		3	- 3	-	
99											-	.2	2				18	18		
95	-					-			- 4	1.0	.6	.5		•		_	31	31		
93							:1	.2	1.0	1.0	.2	.2		.1			44	44		
91						.1	,7	1.5	1.9	, 6							59			
89					.1	. 8	1.3	3.5	. 8	.1							81	81		
87				. 2	.9	1.5											68	68		
85			.2	.3	3.1	2.6	.6	.1									86	86	-	-
83	1	• 2	1.6	1.9	2.3	• 7											72	72		
79	2			3.0	1.5	.1								-	-		107	107		20
79	• 3	1.6	5.6	1.3	. 0	• •											163	163	258	44
75	3.0	-		.4	.1												190			
73	5.6	5.0	1.9														155	155	323	374
71	1.7	3.0															60			
69	.4	.4															10			
67	.2	. 1															3	3	6	56
65														-					-	15
63				20					1019						-					9
59			-											-						1
51																				i
AL .	11.5	24.8	17.5	9.4	8.6	6.0	5.4	5.6	4.1	3.6	1.6	1.2	.3	. 3			1240	1240	1240	1240
-					agraphic services												1.0			
																				•
nt (X)	,	Σχ2			Σχ	-	X	σx	-	No. Ob	_		7 -	32 F		of Hours w	th Tempera	ture ≥93		Total
Hum. Bulb			3455		9649			18,2		12		≤0 F	+ -	32 F	267 F	700.2				744.0
Bulb	951		7295		9304			7.1		12			-	-		633.6		_		744.0
Point			8208		8983		2.4	2.8	44	12						483.6				744.0

CHASE FIELD, TEXAS 12925 73-77 PAGE 1 PSYCHROMETRIC WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 Dry Bulb | Wet Bulb | Dew Point 100/ 99 98/ 97 96/ 95 . 2 . 1 SUMMA 94/ 93 . 2 92/ 91 .6 . 2 36 90/ 89 88/ 87 . 1 50 86/ 85 65 65 92 77 90 92 77 84/ 83 .1 82/ 81 15 64 145 1.2 2.8 6.9 4.7 90 1.3 2.7 3.5 . 3 120 201 219 78/ 77 75 . 7 76/ 148 148 241 74/ 73 236 71 3.2 2.2 :1 209 72/ 50 50 73 70/ 69 90 27 24 17 27 33 68/ 67 24 57 51 32 66/ 65 64/ 63 .2 62/ 61 11 35 32 22 17 5 36 21 12 60/ 58/ 57 6 56/ 55 2 54/ 53 0 52/ 51 16 . 2 50/ 49 12 23 17 0 48/ 47 • 1 46/ 45 44/ 43 10 0 42/ 41 40/ 39 TUTAL 10.823.418.710.710.3 7.1 1200 1200 0 1200 1200 Element (X)  $\sigma_{x}$ No. Obs. Mean No. of Hours with Temperature 267 F 273 F 280 F 672,6 570,0 256.8 604.8 414.6 21.6 525.8 339.6 12.6 92599 77.2 18.448 93017 77.5 7.700 86098 71.7 6.175 82519 68.8 7.895 0 7553551 ≤0 F ≤ 32 F Rel. Hum. 1200 720.0 720.0 1200 Dry Bulb 7281241 22.2 6223116 Wet Bulb 0 720.0 **Dew Point** 1200

PSYCHROMETRIC SUMM

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(1)

DCT 12925 CHASE FIELD. TEXAS 73-77 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 Wet Bulb Dew Po 100/ 99 . 1 98/ 97 96/ 95 94/ 93 92/ 91 90/ 89 88/ 87 16 41 54 62 63 97 16 86/ 85 54 62 63 97 83 84/ 82/ 81 79 77 80/ .1 96 105 97 105 59 91 103 133 126 76/ 75 96 73 74/ 72/ 71 70/ 69 68/ 67 . 2 97 106 88 88 66/ 65 102 119 88 75 70 48 43 42 25 30 14 6 64 63 62/ 61 50 88 87 86 65 57 33 48 38 42 50 36 30 24 57 36 24 16 15 56/ 55 . 2 53 51 49 47 45 16 52/ 50/ 39 26 11 11 11 11 9 40/ . 1 38/ 37 36/ 35  $\sigma_{x}$ No. Obs. Mean No. of Hours with Temperature ≤0 F ≤ 32 F ≥93 F Total ≥73 F Rel. Hum.

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Dry Bulb Wet Bulb Dew Point

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2925 STATION	CI	HASE	FIEL	De T	TATION NA	HE	x			_73	<b>-77</b>			¥I	EARS				PAGE	
Temp.								LB TEMPE									TOTA	4	TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28 2	9 - 30 ≥ 3	1 D.B./V	/.B. Dry Bul	Wet Bulb	Dew Point
32/ 31																				2
OTAL	7.2	21.0	22.0	13.7	6.9	8.0	7.1	5.5	4.0	2.7	1.0	.8					12	124	1240	1240
										- 0							-		-	-
																	-		-	
																	-			-
																	-		-	
										100							-			
																-	-	-	-	
																	-	-	-	
		-	-													-	-		-	
				1													-	-	+	
																+	+	+	-	
		-					,										-			
				- 3			. 4													
																	-			
lement (X)		Σχ²		197	Σχ	T	X	σ <sub>x</sub>	T	No. Ol	s.				Mean N	o. of Hours	with Temp	erature		
Rel. Hum:	N.		0412		9102	0 7		19.2	52	12		±0 F		≤ 32 F	≥67 F	≥73 1			3 F	Total
Dry Bulb		625	9069		8727	5 7	0.4	9.6	92	12	40					4 330		3.4		744.0
Wet Bulb		520	9473		7970	5 6	4.3	0.3	39	12	40				338,	4 121		. 8		744.0
Dew Point		463	1308		7473	6 6	0.3	10.1	05	12	40			3,6	228.	0 93	. 0	2.4		744.0

12925 CHASE FIELD, TEXAS 73-77 PAGE 1

5 PSYCHROMETRIC SUMMA JAN 68

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Temp												TEMP																TOTAL		TOTAL	
( <b>F</b> )		0	1 - 2	3 -	4	5 - 6	7 -	8	9 - 10	11 - 1	2 1	3 - 14	15 -	16 1	7 - 18	19	20	21 - 22	2 23	- 24	25	- 26	27	28	29 -	30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Poi
88/	87								, 2																			2	2		
86/	85							. 1			3	.2																8	8	3	
84/	83				. 1		L	. 6	.4		2	. 2		. 2	. 1													22	22		
82/	81						2	. 6	. 4		5	. 2			.1		. 1											26	26		
80/	79	•1			. 1		2	. 7	.6		4	. 5		. 2	an united													33	33	4	,
78/	77	• 3			. 4		2	. 2	.6		5	. 2		. 1	. 2	2	. 1		1	.1								40			,
76/	75	.7	1.7	1	.7			. 4	.4		7	.4		. 3	. 1												10.0	88		31	1
74/	73	. 9	1.4	i	4	1.2	2	.4		:	4	.2		. 3	• 1		. 2											85	85		3
72/	71	. 6	1.1	li	.7		6	. 2	. 3	,		.2		. 1	. 2		.1											62			3
70/	69	.4	1.2	1	. 4		3	.2	.3		4	.2		3	.2		. 2				1							66	1		6
68/	67	1.1	1.2		.7	1.0		. 6	.3	*	3	. 2		2	. 1		.2		1									71	71		
66/	65	1.2	1.	1	1			.6			7	. 2		. 2	. 2		. 2											84	84		6
64/	63	. 8	2.	1	. 5		3	. 3			2	. 2		2	,2		1		1	-	1	> 1						87	87		
62/	61	.6		i	. 0		4	. 4	. 2		6	-		3	. 2													71	71	87	
60/	59	• 3		1	. 8			. 7	. 2	,	2	,3		. 5														71	71		6
58/	57		1.3	1	2	1		. 5	.2		4	.1																55	55		
56/	55	.2	1.2	1	. 2		3	. 6	. 3	,		.4		1		1	1		1	-	1							57	57	64	6
54/	53				: 7			.4			1	.1																34	34	54	
52/	51	• 2	1.2	1	. 2			.4	,3		1	.1		1		1			1							7		51	51	53	4
50/	49				. 4		-	. 4	13		2	••																33	33		
48/	47		.6		7			. 2	. 2		1			1			1		+		1		-			1		22	22		
46/	45		. 9		4	:		. 4	. 2																			31	31	44	
44/	43	.1	•		. 6				. 1		+						1									1		24	24		
42/	41	• 1			6 4			. 2																				16			4
40/	39	• 1			. 5			-			+			+		1			1	_	-		_			1		16			
38/	37				.1						1																	17	17		2
36/	35	• 1			* 1						+			+			1				1	9				1		6	6	21	3
34/	33				13	•	1									1	1											7	7	6	
32/	31		.6		. 2			1			+		-	+		1	1		+		-		-	-		+	- 10	9	0		2
30/	29	.2	.,		• •																							2	2	12	2
28/	27	.2	• 1	-	1		1	1			+	-		1		1			1		15	103	-		-	1		4	-		1
26/	25	"					1						-	1								-				1				,	2
24/				-			1	1		1	+			+		1	+		+	-	-		_		-	1					2
22/	21										1			1		100													0.51		
lement			Σχ²	-			Σx	_	T	X	+	σ <sub>x</sub>	1		No. O	bs.	7		_	_	_	_	M	ean	No.	of H	ours wi	th Tempera	ture		
Rel. Ho											T							≤0	F	T	≤ 32		_	67 1	_	_	73 F	≥80 F	≥ 93	F	Total
Dry B	ılb										T									1											
Wet B											+		1				1							3							
Dew Po	int				-			10.5	-		+		-	-	-		-			1	-	-	-	-	-	_		1	1	-	

12925 CHASE FIELD, TEXAS

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NOV

Temp.								WET BU	LB TEMPE	RATURE	DEPRES	SION (F)							TOTAL		TOTAL	
(F)		0	1 - 2	3 - 4	5 - 6	7 - 8							21 - 22	23 - 24	25 - 26	6 27 - 28	29 - 3	0 = 31		Dry Bulb		Dew Point
20/ 1	9																					14
OTAL		9.0	25.0	21.0	12.3	9.2	6.8	6.6	4.0	3.0	1.7	1.1	•1	.1					1200	1200	1200	1200
	1														_							
	1																					
	1																					
					67																	
																			9-4			
		4.																				
	1									1								-				
															-	+		-				
	+															-	-	+				
	+		-	-											-	-		-				
																-	-	-				
-	-																	-				5 8
el			$\Sigma \chi^2$			Σχ		X		_	N- C'						N- /					
Rel. Hum	_			5069		8773	9 7		σ <sub>x</sub>	22	No. Ol	00	±0 F	7	32 F	Mean ≥67		≥73 F	th Tempera ≥80 F	ture ≥93	. 1	Total
Pry Bulb	-	-	492	0596				3.0	11.9	97	12	00	-01									720.0
Wet Bulk	_		413	4310		6906	2 5	7.6	11.5	40	12	00	-	-	15.6	193	. 2	65.4	700	-		720.0
Dew Poin	+	V V		0368		6344	2 5	2.9	14.3	32	12	00			76.2	145	. 2	51.6		6		720.0

925 STATION	<u>UH</u>	ASE	FIEL	, 51	FATION NA	ME		7		-12	-77	7 .		YE	ARS	===		-	DEC	н
												11.7					1	2	AGE I	s.T.)
Temp.					7			B TEMPE									TOTAL	1	TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22		25 - 26	27 - 28 29	- 30 ≥ 31	D.B./W.B.	Dry Bulb V	Vet Bulb	Dew Point
90/ 89													.1		. 1		1	1		
86/ 85											• 1		:1	.1	••		3	3		
84/ 83				7		.1		:1		.1	.1		• •				4	4		\
82/ 81					.1		,1	.2		. 1	, ,	.1					7	7	. 51	
80/ 79					.2		. 2		, 3	-	.1	18	2	2.			10	10		
78/ 77					. 3	.4	,6	.1	. 2	.1	• 1			,	- 1		22	22	1	
76/ 75			*1	.3	•1	,3	0.0		. 2	• 2	-1	• 2		+			23	23		
14/ 73		. 1	, 4	.6	•1	.6		. 2	• 2		- 2	• 2	• 1			1	27	27	2	2
70/ 69	.1	1.2	,6	- 1	.3	.1	. 2	.1	.4	.2	• 2	• •	•			1	43	43	23	5
8/ 67	. 1	1.1	1.8	.5	. 5	. 2	,2	.3	. 1	. 3	, -	.1				1 1 2	66	66	52	33
66/ 65	.5	.7	. 8	.4	.5	• 2		.4	.4		•1						56	56	55	39
64/ 63	1.5	1.2	.2	1.0	.4	.6	.1	. 8	.5		•1						80	80	64	62
62/ 61	. 8	1.2	. 3	. 2	.6	.2	.3	.5	.2	. 1	• 1						58	58	45	39
50/ 59	1.0	1.5	1,1	. 6	.3	1.0	.6	.2	- 2	.1				-		- J	79	79	58	47
58/ 57	.6	1.4	1.0		.3	.6	.6	,2	. 2	.1					1		58	58 65	63	37
56/ 55 54/ 53	.2	1.0	1.0	1.6	1.4	.3		.1	:1	• 1		-	-				86	86	52 62	47
52/ 51	. 2	2.0	1.6	7	- 7	. 3	1.4	1	• 1								63	63	70	44
50/ 49	. 9	1.5	1.0	1.0	.6	.2	.2	.1									69	69	96	66
48/ 47	. 9	1.5	1.3	2.2	. 8	.4											87	87	96	64
46/ 45	.6	1.7	1,9	. 8	.7		1										76	76	95	57
44/ 43	.2	1.2	1,3	1.0	. 6		-1					-	-			-	57	57	74	59
42/ 41	.6	1.5	1,0	. 6	.4	.2											52	52	91	59
40/ 39	• 3	1.5	1,2	, 0	. 3				_							-	16	50 16	67	75
36/ 35	• 1	. 2		. 2	.2	•1											21	21	32	66
34/ 33	• 2	• •	,2	.2				No.					- 4				8	8	27	50
32/ 31	. 1	. 1	. 2	. 2													6	6	12	49
30/ 29	.2		,1	.1													4	4	21	40
28/ 27			. 2														2	2	3	37
26/ 25			. 1														1	1	3	16
4/ 23		Σ.,2			Σ.,			-		No Ci					Mara N	o of Hours w	ith Tarres		3	22
lement (X) Rel. Hum.		Σχ2	-		Σχ	-	X	σ <sub>x</sub>	+	No. Ob	8.	≤OF	1 4	32 F	Mean No	≥73 F	≥80 F	≥93 F	T .	otal
Dry Bulb			-			-			-		-	201	+	-	-0, 1	-701		-731	-	
Wet Bulb									_	-									1	
Dew Point		-																		

12925 STATION	12	ASE	FIEL		EXAS	ut I				73	-77			Y	EARS			77	-	DE	C NTH
				-				-	14				3							PAGE	2 (L.S.T.)
Temp. (F)	0	1 - 2	3 - 4	5-6	7 0			LB TEMP				21 22	22 24	25 24	27 - 28	20 20		TOTAL D.B./W.B.	D D.II.	TOTAL	
22/ 21	-	1 - 2	3 - 4	3 . 0	7 . 8	y - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	231	D.B./ W.B.	Dry Bulb	Wet Bulb	
20/ 19												1								, .	2
18/ 17		1								7.											•
16/ 15									100												
14/ 13										100	190 2										
12/ 11				-																	
10/ 9								1 9 1		1					100						
6/ 5				-							-			-							-
6/ 5																					
TOTAL	9.2	23.3	18.4	15.2	10.5	7.5	5.8	3.7	2.9	1.4	1.0	.6	.3	.1	.1				1240		124
													-					1240		1240	
		A. Car	1												1-1						
		-																			
7		1		100		-															
		-		-	-1,	-					-						-		-		
		-																			
		- 7																			
							3.5														
		2																			
-		-	-	-		-						-		-			-				
7			1																		
				-										-			-				
															11.05						
7-1-1-11							in processing				100			A SALES OF							
		-		-						-				-			-	-			
Element (X)		$\Sigma_{\chi^2}$			Σχ		X	$\sigma_{x}$		No. Ol	)s.				Mean I	No. of I	lours wi	th Tempera	ture		
Rel. Hum.		655	7887		8589	7 6	9.3	22.1	45	12		≤0 F		32 F	≥67 F		273 F	≥80 F	≥ 93		Total
Dry Bulb			3471		6910	3 5	5.7	11.4	51	12	40						50,8		6		744
Wet Bulb			8868		6214			10,4		12				_	51	_	1,2		-		744.
Dew Point		204	0792	1	5472	9 4	4.1	13.4	83	12	40		1	43.4	24	0	.6				744.0

5 PSYCHROMETRIC SUMMA JAN 68

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## PSYCHROMETRIC SUMMARY

12925 CHASE FIELD, TEXAS

73-77

PAGE 1 HOURS (L.S.T.)

Temp.										100000000000000000000000000000000000000	SSION (F									TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 2	22 23	3 - 24	25 - 2	6 27	7 - 28	29 - 3	30 ≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Poir
104/103													1			0				1	1		
02/101													0							4	4		
100/ 99											.(		1	.0						17	17		
98/ 97										1			1	.1		0				37	37		
96/ 95									.1				1	.0						68	68		
94/ 93						.0	.0	.1	. 2			200	1	.0						139	139		
92/ 91						.1	.2	. 5	, 5				0	.0						228	228		
90/ 89				.0	.0	.3	.2	1.0	.3					.0	-		.0		0	373	373		
88/ 87				.0	.3	.7	,9	.3	. 2				0	.0		0	.0		T	377	377		
86/ 85			.1	. 2	1.1	1.0	.5	.3	.2				O	.0			.0		1000	508	508		
84/ 83		•0	.2		1.1	.5	.4	.3	.2				0	.0						525	525	3	
82/ 81		.1	. 6	1.0	. 9	,3	. 4	. 3	. 1					.0			.0			598	598	61	9
80/ 79	• 1	.5	1.5	1.2	.6			.2	. 2		-		0	.0		0				778	778	309	60
78/ 77	.4	1.7	2.1	1.1	.7		.3	.2	. 2				0	. 0						1065	1065	1028	259
76/ 75	.9	2.9	2.4	1.0	.5	.3	. 3	.2						.0						1319	1319	1484	839
74/ 73	1.3	2.8	2.2	1.2	,3	.4	.3	. 2						.0						1300	1300	1633	1466
72/ 71	.7	1.9	1.9	.6	.2	.3	,2	,1	,1			_	0	.0						919	919	1281	1554
70/ 69	.4	1.4	1.4	- 4	. 3	. 2	.2	.1						.0						702	702	1059	1280
68/ 67	. 3	1.0	1.2	, 5	.3	.2	,2	.1					0			1				604	604	869	1023
66/ 65	. 4	1.2	. 8	. 5	. 2	.2	. 3	.2			1					1.				589	589	678	841
64/ 63	.4	1.4	,7	.4	.3	.2	,1	.2	.1				1			+			1	578	578	686	729
62/ 61	. 3	. 8	.5	.3	, 3	. 2	. 2	. 2												425	425	611	614
60/ 59	.3	. 9	.7	. 3	• 2	,2	.2	,1	. 1											447	447	522	
58/ 57	.3	.7	.3	. 3	. 2	.2	.2	.1							20					316	316	476	524
56/ 55	.2	.7	.4	, 3	.3	,2	,1	.1					1		-	T			1	334	334	410	416
54/ 53	. 2	. 6	.4	.4	.3	.2	.1	.0												331	331	404	374
52/ 51	.1	.6	,5	. 2	.2		,1	.0												270	270	400	33:
50/ 49	. 2	.6		.2	.2	.1	.1	.0		Lane.										279	279	387	
48/ 47	• 2	.6	F 1	, 5	.2	,1	.0						1		-	1				304	304	417	347
46/ 45	. 2	.6		.2	. 2	.1	-0			1	1 6									253	253	366	356
44/ 43	.2	.4	. 3	. 2	.1	.1	.0													201	202	292	
42/ 41	. 3	.4	.3	.2	. i	.0									100					187	187	305	309
40/ 39	• 2	.4	. 3	.1	.1	.0							1			T				154	154	217	285
38/ 37	. 2	. 3	.1	.1	. 1	.0														103	103	224	302
Element (X)		$\Sigma_{\chi^2}$			Σχ		X	σ <sub>x</sub>		No. C	bs.		-				Mean	No. of	Hours w	ith Tempera			
Rel. Hum.												≤ 0	F	1 5	32 F	T	≥ 67 1	-	≥73 F	≥80 F	≥93	F	Total
Dry Bulb																T	5 10						
Wet Bulb														1									
Dew Point		77.0												1									

Mean No. of Hours with Temperature ≥67 F ≥73 F ≥80 F ≥93 F

332 F 267 F 273 F 280 F 293 F 85.15736.04401.71942.7 159.6 149.34635.92710.8 99.6 613.53893.92036.4 41.4

0

PSYCHROMETRIC

SUMMUS

Total

8760.0 8760.0

8760.0

PAGE 2 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. Temp. 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 21 Wet Bulb Dew Point 240 236 217 .2 82 36/ 35 82 140 .0 96 76 34/ 33 00 49 49 32/ 31 35 31 14 30/ 29 26 188 144 107 115 76 75 38 24 13 26 26/ 25 24/ 23 16 3 22/ 21 20/ 19 18/ 17 16/ 15 14/ 13 11 10/ 9 8/ 6/ 5 14607 8.223.020.612.5 9.3 7.2 6.3 4.7 3.2 2.3 1.4 14608 TOTAL 14607 14607

No. Obs.

14607

14608

14607 14607 ≤0 F

5 32 F

1077906 73,8 19,963

1013960 69.4 13.855 927563 63.5 12.562 867649 59.4 14.821

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Element (X)

Rel. Hum.

Dry Bulb

Wet Bulb

85363590

73184538 61206441

2

12925

CHASE FIELD, TEXAS

80

0

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG E PROM HOURLY OBSERVATIONS

12925

2

CHASE FIELD, TEXAS

73-77

STATION

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
00	MEAN S. D. TOTAL OBS	48.8 11,774 155	E		66.3 7.607 150		75.5 3.140 150			72.9 4.817 150		99.3 10,493 150	51.6 9,329 155	12.12
03	MEAN S. D. TOTAL OBS	47.3 12.186 155					74.2 3.653 150			71.4 5,365 150		11,618		63.4 12.66 182
06	MEAN S. D. TOTAL OBS	46.1 12,238 155		10 M		5,519	3.873		74.0 2,220 155			11,964		13.00
09	MEAN S. D. TOTAL OBS	49.1 11.620 155							82.4 3,455 155	78.3 5,183 150		10,623		13.81
12	MEAN S. D. TOTAL OBS	58.1 13.425 155	10.205				4.846		89.0 5,189 155			11,015		76.3 13.16
15	MEAN S. D. TOTAL OBS	61.6 14.353 155	10.422			5.649	5,553		89.2 7,140 155			10,698	11,205	78. 12.67
18	MEAN S. D. TOTAL OBS	57.4 12.522 155		8,321					84.8 5,218 155	81.2 4,336 150		9,416	59.8 9.101 155	73.8 12.08 182
21	MEAN S. D. TOTAL OBS	51.3 11.447 155				4.045	2.992			74.8 4,160 150	67.7	60.9 9,879 190	54.1 8,828 155	11,00
ALL	MEAN S. D. TOTAL OBS	13,567	57.3 11.936 1128	10.239	8,404	7.221		6,782		77.5 7.701 1200		11,998		13.85

## MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS

MAL (88)

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THE STATE STATE STATE OF THE ST

WET-BULB TEMPERATURES DEG ! FROM HOURLY OBSERVATIONS

12925

CHASE FIELD, TEXAS

73-77

YEARS

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
	MEAN	46.0	49.5	59.0	62.7	68.3	72.5	73.9	73.9	70.3	62.3	56.3	48.1	62.0
00	S. D.	11.683	10.533		8.412	5,348	3.787	1.867	1,903	6.078	8,226	11,284	10,007	12.67
	TOTAL OBS	155	141	155	150	155				150		150		1826
	MEAN	44.9	48.2	57.8	61.9	67.6	71.7	73.4	73.4	69.4	61.2	99.1	47.0	61.0
03	S. D.	11,956	11.199	10.045	8.636	5.762	4.148	2.079	2,024	6,442	8,858	12,280	10,281	13.140
	TOTAL OBS	155			150					130	155	150	155	182
-	MEAN	44.1		57.3	61.4	67.2		72.8	72.9	68.6	60.1	54.2		60.3
06	S. D.	12,138	11.151	10.637	8,940	6.029	4.191	2.067	2,040	6,629	9,134	12,453	10,940	13.43
	TOTAL OBS	155								150				182
	MEAN	46.6	50.6	60.5	64.8	71.0	75.0	77.0	77.0	73.4	66,1	57.6	49.2	64.1
09	S. D.	11,633	10.006	9,449	7.272	4,873	3,195	1.987	2,193	6,139	8,264	11,816	10,433	13,29
	TOTAL OBS	154	141	155	150	155	150	155	155	150	155	150	155	182
	MEAN	51.0	55.1	63.0	66.4	71.9	75.4	76.8	70.0	74.3	67.7	60.2		66.1
12	S. D.	11.617	9,390	8,898	6.472	4.648	3,374	2.186	1,950	5,369	7,152	10,915	10,056	11.69
	TOTAL OBS	155	141	155	150	155	150	155	155	150	195	150	155	1820
	MEAN	52.4	56.3	63.6	66.7	72.2	75.3	76.7			67.5		54,6	66.5
15	S. D.	11.250	8,996	6,563	6.429	4,535		2,286						11.120
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
	MEAN	50.5	54.6		65.7	71.1	74.4		75,5	72.7	65,7	and the second second	52,4	65.0
18	S. D.	10,948	8,701	8,441	6,643							10,524		11,31
	TOTAL OBS	155	141	155	150	155	150	155	199	150	155	150	155	1820
	MEAN	47.7	51.4	60.1	64.0	69.4	73.0	74.6	74.5	71.0	63.5		49,7	63.0
21	S. D.	11,276	9,777	8,802	7.134	4.854	3.400	1.788	1,737	5,727	7,693	11,034	4.010	12,100
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1820
ALL	MEAN			60.5	64.2	69.8	73.6	75.1	75.0	71.7	64,3		50.1	63.5
HOURS	S. D.	11,887					3,942	2,591	21475	6,176		11,540		12,56
	TOTAL OBS	1239	1128	1240	1200	1240	1200	1240	1250	1200	1250	1200	1540	1460

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#### MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

12925

CHASE FIELD, TEXAS

73-77

IRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
	MEAN	42.5	46.0	56.1	60.2	66.4	71.0	73.0	72.9	68.8	60.2	53.6	44.1	59.6
00	S. D.	13.598	13.306	11.888	10.584	6.392		2.276	2.174	7.604	9,799	13,357	12.758	14.589
	TOTAL OBS	155	141	T	150		150		155	150	155			1826
	MEAN	4				44 -	9	70.4	99 7	68.2	59.4	52.8	43.3	80 1
		41.9	45.5	55.3	59.7	66.0	70.5	72.6	72.7			36.07	12,881	14,78
03		13,713	and the second second		the same of the same of				41.44	150		24001		
	TOTAL OBS	155	141	155	150	155	150	155	155	130	193	150	199	1820
	MEAN	41.5	43.9	55.0	59.2	65.8	70.3	72.2	72.3	57.4	58,5	32.1	42.9	58.5
06	S. D.	13.709		12.732		6.869	4.720		2,117	7.825		13,901	13.192	14,98
	TOTAL OBS	155								150	155	150	155	1950
	MEAN	43.6	46.2	56.7	60.8	67.8	72.0	74.6	79.9	70.9	62.6	53.9	45.0	60.8
09	S. D.	13.644						2.341	2,545				13,560	15.190
0.	TOTAL OBS	154						155	135	150		150		182
	TOTALOBS	134		133	100	190	130		•••		•••	•••	•••	
	MEAN	43.9	46.1	56.0	59.8	66.5	70.2	71.8	71.0	5.90			44,8	59.5
12	S. D.	14.454	13.750	13.352	10.618	6,924	4.697	3.214	2,950	7,815	10,199	15,025		14,80
	TOTAL OBS	155	141	155	150	155	150	155	195	150	159	150	155	1820
	MEAN	43.6	45.1	55.0	59.2	66.2	69.9	71.2	70.9	68.4	59.8	52.0	43.8	58.8
15	S. D.	13.945							3.372			15.092	14.270	14,89
1-	TOTAL OBS	155	141						155	150				182
	10.112.000	100	44.	332			•,,,						-	
	MEAN	43.4	45.1	55.0	59.3	66.1	69.8	70.9	71.3	68.3			44.5	59.0
18	S. D.	13,841	14,593	13.496	11.536	7.021	5.136	3,591	31075	8,147	10,079	14,716		14.77
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
	MEAN	43.7	44.5	56.3	60.7	66.8	70.9	72.8	72.5	68.9	60.7	53.0	44.7	59.9
21	S. D.	13.480			9.914		4,511		2,190			13,987		14.43
	TOTAL OBS	155			150									1026
	нелы	43.6	4818		40.0	44.4	70'4	72.4	92.4	AATE	40-3	52.9	44.1	59,4
ALL	MEAN	43.0	+3.3	55.7	37.7	66.4	70.6	72.4					17714	14.82
HOURS	S. D.	13,787	F 3 . 103	440162	1200	90115	7.033	2.022	61 22	1200	15-0	1200	1240	1460

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CHASE FIELD, TEXAS

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## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL NO. OF
MOITH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
JAN	00	100.0	100,0	100:0	98,7	92.9	84,5	79.1	58,7	32,9	80,7	155
	03	100.0	100.0	99:4	98,1	94.2	88,4	72.4	69,0	42.6	83,5	155
	06	100.0	100,0	100:0	98,7	96.1	91.0	84.5	71,0	45.8	85,4	155
	09	100.0	100.0	99:4	96,1	95.5	87,7	79.2	63,6	40:3	62,7	150
	12	100.0	99,4	90:3	80,6	67.1	55,5	40,6	27,7	16.1	63,8	159
	15	100.0	96.1	83.9	76,1	55,5	40,6	25,4	50.0	11.6	56,9	155
	18	100.0	98,7	91:0	79,4	69.0	57.4	12.5	28,4	16.1	64,2	15
	21	100.0	100.0	98.7	95,5	90.3	78,7	00,4	56,1	27.7	77,7	155
тот	ALS	100.0	99,3	95.3	90.4	82.6	73.0	0,50	49,3	29:1	74.4	123

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CHASE FIELD, TEXAS

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	HUMIDITY GRI	EATER THAN			MEAN	TOTAL NO. OF
MONIH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
FEB	00	100.0	100,0	99:3	98,6	92.9	82,3	70,9	62,4	36,2	80,4	141
	03	100.0	100.0	100:0	98,6	95.7	91,5	80,1	67,4	40.8	84,6	141
	06	100.0	100,0	99.3	98,6	94.3	88,7	82,3	70,2	49,6	85,2	141
	09	100.0	100,0	97.2	92,9	87.2	78.0	69.7	54,6	30,5	76,6	141
	12	100.0	97.2	86.5	73.0	61.0	36,9	22.1	13,5	9,4	55,5	141
	15	100.0	90,8	73:8	57,4	43.3	28,4	19,6	9,2	5,0	48,1	141
	18	100.0	92,2	80:1	69,5	56.7	46,8	31,2	15,6	7:8	55,6	141
	21	100.0	99,3	97.2	91,5	83.7	70,2	92,4	51,1	17:7	74,0	14
701	TALS	100.0	97,4	91.7	85,0	76.9	65,4	94,2	43,0	25.0	70,0	113

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	HUMIDITY GRI	EATER THAN			MEAN RELATIVE	TOTAL NO. OF
MONTH	(£.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
MAR	00	100.0	100,0	99:4	98,1	91.6	87,1	80,6	71,0	26.5	81,6	15
	03	100.0	100,0	100:0	97.4	94.8	91,0	80,0	70,3	31.0	63,1	15
	06	100.0	100,0	98:7	96,8	96.1	92,3	00,5	71,6	37:4	84,9	15
	09	100.0	99,4	98.1	94,2	87.1	79.4	71.0	57,4	25,8	77,2	15
	12	100.0	96.1	88:4	80,6	71.0	54,8	39,5	17,4	6,5	60,5	15
	15	100.0	92,9	81:3	69,7	61.3	40,6	22,2	12,9	2.6	53,9	15
	18	100.0	96,1	83,9	76,8	71.0	50,1	41.9	\$0,0	3,9	60,6	15
	21	100.0	100,0	98:7	94,2	86.5	79,4	72.3	63,2	16,8	76,8	15
						G 3		NE IN				
тот	ALS	100.0	98,1	93:6	88,5	82.4	72,8	01.4	48,0	15.8	72,4	124

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CHASE FIELD, TEXAS

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL NO. OF
(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
00	100.0	99,3	99,3	98.0	96.7	92,0	80.0	70,0	16.7	82,0	150
03	100.0	99,3	99.3	98.7	98.0	96,0	90,0	77,3	20,0	84.1	150
06	100.0	100.0	99,3	97,3	96.7	94.0	90.7	80,0	28.0	84,5	150
09	100.0	100.0	98:0	92.0	88.0	83,3	68.0	40,0	10.7	73,4	150
12	100.0	99,3	92.7	86,7	67.3	49,3	27.3	10,0	2:7	58,7	150
15	100.0	97.3	87.3	78,0	62.0	40,0	22,7	7,3	2.0	55,7	150
18	100.0	97,3	90.7	84,7	74.0	60,0	30,7	12,0	2:0	61,6	150
51	100.0	100.0	99:3	94.7	90.7	87,3	79.3	55,3	6:7	76,9	150
ALS							A21.0		•••		1200
	00 03 06 09 12 15	(L.S.T.) 10%  00 100.0  03 100.0  06 100.0  09 100.0  12 100.0  15 100.0  21 100.0	(L.S.T.) 10% 20%  00 100.0 99.3  03 100.0 99.3  06 100.0 100.0  09 100.0 100.0  12 100.0 99.3  15 100.0 97.3  18 100.0 97.3  21 100.0 100.0	(L.S.T.)  10%  20%  30%  00  100.0  99.3  99.3  06  100.0  100.0  100.0  99.3  09  100.0  100.0  99.3  92.7  15  100.0  97.3  87.3  18  100.0  97.3  90.7  21  100.0  100.0  99.3	10% 20% 30% 40%  00 100.0 99.3 99.3 98.0  03 100.0 99.3 99.3 98.7  06 100.0 100.0 99.3 97.3  09 100.0 100.0 98.0 92.0  12 100.0 97.3 92.7 86.7  15 100.0 97.3 87.3 78.0  18 100.0 97.3 90.7 84.7  21 100.0 100.0 99.3 94.7	(LS.T.)  10%  20%  30%  40%  50%  00  100.0  99.3  99.3  98.0  96.7  98.0  06  100.0  100.0  99.3  97.3  96.7  09  100.0  100.0  98.0  92.0  88.0  12  100.0  97.3  87.3  78.0  62.0  18  100.0  97.3  90.7  84.7  74.0  21  100.0  100.0  99.3  94.7  90.7	(L.S.T.)  10%  20%  30%  40%  50%  60%  00  100.0  99.3  99.3  98.0  96.7  98.0  96.0  06  100.0  100.0  99.3  97.3  96.7  94.0  09  100.0  100.0  98.0  92.0  88.0  83.3  12  100.0  99.3  92.7  86.7  67.3  49.3  15  100.0  97.3  87.3  78.0  62.0  40.0  21  100.0  100.0  99.3  94.7  90.7  87.3	(L.S.T.) 10% 20% 30% 40% 50% 60% 70% 00 100.0 99.3 99.3 98.0 96.7 92.0 89.0 03 100.0 99.3 99.3 98.7 98.0 96.0 90.0 06 100.0 100.0 98.0 92.0 88.0 83.3 69.0 12 100.0 99.3 92.7 86.7 67.3 49.3 27.3 15 100.0 97.3 87.3 78.0 62.0 40.0 22.7 18 100.0 97.3 90.7 84.7 74.0 60.0 39.7 21 100.0 100.0 99.3 94.7 90.7 87.3 79.3	10%   20%   30%   40%   50%   60%   70%   80%	10%   20%   30%   40%   50%   60%   70%   80%   90%	HOMES (L.S.T.) 10% 20% 30% 40% 50% 60% 70% 80% 90% HUMIDITY 00 100.0 99.3 99.3 98.0 96.7 92.0 80.0 70.0 16.7 82.0 03 100.0 99.3 99.3 98.7 98.0 96.0 90.0 77.3 20.0 84.1 06 100.0 100.0 99.3 97.3 96.7 94.0 90.7 80.0 28.0 84.5 09 100.0 100.0 98.0 92.0 88.0 83.3 68.0 40.0 10.7 73.4 12 100.0 99.3 92.7 86.7 67.3 49.3 27.3 10.0 2.7 58.7 15 100.0 97.3 87.3 78.0 62.0 40.0 22.7 7.3 2.0 55.7 18 100.0 97.3 90.7 84.7 74.0 60.0 38.7 12.0 2.0 61.6 21 100.0 100.0 99.3 94.7 90.7 87.3 79.3 55.3 6.7 76.9

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENT	AGE FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL NO. OF
MONTH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
MAY	00	100.0	100.0	100:0	100,0	100.0	97,4	89.7	77,4	16.1	83,6	155
	03	100.0	100.0	100:0	100,0	99.4	98,1	94.2	84,5	24.5	85,9	155
	06	100.0	100.0	100:0	100,0	99.4	98,1	27.4	91,6	31.0	87,7	155
	09	100.0	100.0	100:0	99,4	94.8	86,5	60,4	31,6	7.7	73,9	155
	12	100.0	100.0	98:1	89,7	78.1	51.6	23.2	5,8	.6	60,2	159
	15	100.0	100.0	96:1	87,7	70.3	47,1	12,2	5,2		57.3	155
	18	100.0	100.0	98:1	91,6	81.9	63,2	30.1	9,0	1.9	63,3	155
	21	100.0	100.0	100:0	100.0	96.1	93,5	81.9	54,8	6,5	78,5	155
			*									-
	9								5			
тот	ALS	100.0	100,0	99:0	96.1	90.3	79,4	02,1	45,0	11,0	73,8	1240

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CHASE FIELD, TEXAS

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## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENT	AGE FREQUEN	CY OF RELATIV	E HUMIDITY GRI	EATER THAN			MEAN RELATIVE	TOTAL NO. OF
MONIN	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
IUN	00	100.0	100.0	100:0	100.0	99.3	99,3	90.7	80,7	32,7	85,4	150
	03	100.0	100,0	100:0	100,0	100.0	99.3	90.0	90,0	38,0	88,5	150
	06	100.0	100,0	100:0	100,0	100.0	100,0	97.3	92,0	40.7	90,0	150
	09	100.0	100,0	100:0	99,3	98.0	92,7	62.7	19,3	5,3	73,5	150
	12	100.0	100.0	100:0	96.7	78.7	40,7	12,0	7,3	5:0	58,8	150
	15	100.0	100,0	98:0	89,3	63.3	38,0	10,7	9,3	4:7	57.6	150
	18	100.0	100,0	98.7	94.7	84.0	58,7	\$6.0	10,0	.7	63,2	150
	21	100.0	100,0	100:0	100,0	98.0	96,0	€4.0	56,7	8.7	80,9	150
тот	ALS	100.0	100.0	99:6	97,5	90.2	78.1	4,50	45,7	17.4	74.9	1200

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

монтн	HOURS			PERCENT	AGE FREQUENC	CY OF RELATIVE	HUMIDITY GE	EATER THAN			MEAN RELATIVE	TOTAL NO. OF
MONTH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
JUL	00	100.0	100,0	100.0	100.0	100.0	100,0	100.0	91,0	53,5	90,9	159
	03	100.0	100.0	100:0	100.0	100.0	100,0	Ť00.0	94,8	66.5	92,9	159
	06	100.0	100.0	100:0	100,0	100.0	100,0	100,0	99,4	71.0	94,1	155
	09	100.0	100,0	100:0	100.0	100.0	97,4	72.9	34,2	9.7	76,8	15
	12	100.0	100,0	100:0	94,8	72.9	41,9	10,8	7,1	3,2	58,9	159
	15	100.0	100.0	98.7	85,8	62.6	35,5	17.4	7,7	5,2	56,7	155
	18	100.0	100.0	99:4	96,8	81.9	54.8	51.3	9,0	.6	62,2	159
	21	100.0	100.0	100:0	100,0	100.0	100,0	93,5	59,4	21.9	63,2	15
тот	ALS	100.0	100.0	99:8	97,2	89.7	78,7	65,2	50,3	\$6.0	77,0	124

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CHASE FIELD, TEXAS

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENT	AGE FREQUENC	CY OF RELATIV	E HUMIDITY GE	REATER THAN			MEAN RELATIVE	TOTAL NO. OF
MONTH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
AUG	00	100.0	100.0	100.0	100,0	100+0	100,0	22.4	87,7	51.0	90,4	155
	03	100.0	100.0	100:0	100,0	100.0	100,0	100.0	100,0	61,3	93,1	155
	06	100.0	100.0	100:0	100,0	100.0	100,0	100,0	100,0	74.2	94,6	155
	09	100.0	100.0	100:0	100.0	100.0	100,0	70,8	38,7	16.1	78,6	155
	12	100.0	100.0	100:0	97.4	66.5	34,8	10.1	9,0	3,9	58,1	159
	15	100.0	100.0	98:7	83,9	59,4	33,5	21.9	12,9	8,4	57,6	155
	18	100.0	100,0	99:4	98,1	86.5	60,5	32,9	20,0	7.1	65,8	155
	21	100.0	100,0	100,0	100.0	100.0	98,7	94.9	63,2	29.7	84,3	155
					1.0							
тот	ALS	100.0	100,0	99:8	97,4	89.1	78,5	07.5	53,9	31,5	77,0	1240

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CHASE FIELD, TEXAS

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENT	AGE FREQUENC	Y OF RELATIVE	HUMIDITY GRE	EATER THAN			MEAN RELATIVE	TOTAL NO. OF
MONIA	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
SEP	00	100.0	100.0	100.0	100,0	99.3	94.7	90,7	79,3	46.0	87,8	150
	03	100.0	100,0	100:0	100,0	100.0	96,7	94.0	86,7	50,0	90.2	150
	06	100.0	100.0	100:0	100,0	100.0	98.0	92,3	87,3	52.7	90,3	150
	09	100.0	100.0	100:0	99,3	95.3	90.0	75.0	46,7	22,7	79,3	150
	12	100.0	100.0	98:0	91,3	74.7	48,7	20,7	12,0	9:07	61,5	150
	15	100.0	100.0	94:0	86,7	66.0	42.0	14.0	8,7	3,3	57,7	150
	18	100.0	100.0	96:7	91,3	86.0	71.3	40.7	21,3	5,3	67,2	150
	21	100.0	100.0	100:0	100.0	94.7	90,0	22.7	71,3	35,3	83,4	150
								FILE				
тот	ALS	100.0	100,0	98:6	96.1	89.5	78,9	60,5	51,7	28,3	77,2	1200

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CHASE FIELD, TEXAS

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5706 RELATIVE HUMIDITY JAN

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	03											
	00	100.0	100.0	100.0	100.0	96,8	94,2	89.7	79,4	32,3	86,8	159
	06	100.0	100.0	100:0	100.0	100.0	98,7	94.9	8040	41,3	87,5	155
	09	100.0	100.0	100.0	98.7	94.8	85,2	65.4	36,1	13.5	75,1	155
	12	100.0	100.0	95:5	83,9	58.7	37,4	17.4	12,9	3,9	56,7	159
	15	100.0	98.1	91:6	76,1	53.5	31.0	10,1	9,0	4,5	53,3	155
	18	100.0	100.0	95.5	90,3	76.8	57,4	30,1	18,7	5:0	63,9	159
	21	100,0	100,0	100:0	100,0	96.1	91,0	79.8	54,2	19,4	79,5	159
									į			
тот	ALS	100.0	99,8	97.8	93,6	84.5	74,0	60,9	54,9	19.7	73,4	124

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CHASE FIELD, TEXAS

73-77

PERIOD

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENT	AGE FREQUENC	Y OF RELATIVE	HUMIDITY GRE	ATER THAN			MEAN	TOTAL NO. OF
MONIH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
NOV	00	100.0	100.0	99,3	99,3	96.0	91,3	80,7	68,7	28.0	82,6	150
	03	100.0	100.0	100.0	98.7	98.0	93,3	80.7	74,7	37,3	85,3	150
	06	100.0	100.0	100:0	100.0	98.7	95,3	85.0	74,7	40,0	86,5	150
	09	100.0	100.0	99:3	96,7	90.0	80,7	72.0	54,7	20,7	77,6	150
	12	100.0	98.0	89:3	79,3	65.3	48,7	29,7	10,7	3,3	57,4	150
	15	100.0	94.7	84.0	72,0	56.0	32,7	19.7	6,7	2.7	52,8	150
	18	100.0	98,0	94,7	86,7	74.0	61,3	40.7	27,3	6.7	65,4	150
	21	100.0	100,0	98:7	98,0	90.7	61,3	64.0	56,0	20,0	77,3	150
	1.0											
тот	ALS	100.0	98.8	95.7	91.3	63.6	73,1	60,9	46,7	19.0	73,1	120

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5706 RELATIVE HUMIDITY JAN 68

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## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	21	100.0	99,4	98.7	94,8	87.7	69,7	24.1	40,0	10,8	72,8	15
	18	100.0	98,1	93:5	78.7	63.2	47,7	37.4	22,6	7:7	60.7	15
	15	100.0	92,3	78:7	60,6	43.9	29,7	19,4	12,9	5,8	49,9	15
	12	100.0	96,8	88,4	71.0	55.5	38,7	25.0	16,1	7.7	55,7	15
	09	100.0	100.0	99:4	96,1	89.7	80,6	63,2	47,1	27.7	76,9	15
	06	100.0	100.0	100:0	99.4	96.1	86,5	79.8	57,4	33,5	81,4	15
	03	100.0	100,0	99:4	98.1	94.2	82,6	71,0	58,1	29.0	79,5	15
DEC	00	100.0	100,0	100:0	96,8	91.6	80,6	00,5	53,5	23,9	77,3	15
HTMOM	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE	NO. OF OBS.

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CHASE FIELD, TEXAS

73-77

ALL

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	HUMIDITY GRI	EATER THAN			MEAN	TOTAL NO. OF
MONIH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
JAN	ALL	100.0	99,3	95.3	90,4	82.6	73.0	65.6	49,3	29.1	74,4	1239
FEB		100.0	97.4	91:7	85,0	76.9	65.4	54.2	43,0	25.0	70.0	1128
MAR		100.0	98,1	93.6	88,5	82.4	72,8	01.4	48,0	18,8	72,4	1240
APR		100.0	99.1	95.7	91,3	84.2	75,2	8.50	44,0	11.1	72,1	1200
MAY		100.0	100.0	99:0	96,1	90.3	79,4	63.1	45,0	11.0	73,8	1240
NUL		100.0	100.0	99:0	97,5	90.2	78,1	62.4	45,7	17.4	74,9	1200
JUL		100.0	100,0	99.8	97,2	89.7	78,7	65,2	50,3	29:0	77,0	1240
AUG		100.0	100.0	99.8	97,4	89.1	78,5	07.5	53,9	31.5	77,8	1240
SEP		100.0	100.0	98.6	96,1	89.5	78,9	60,5	51,7	26,3	77,2	1200
OÇT		100.0	99.8	97:8	93,6	84.5	74.0	60,9	44,9	19.7	73,4	1240
NOV		100.0	98,8	95.7	91,3	83,6	73,1	00,9	46,7	19.8	73,1	1200
DEC		100.0	98,3	94.8	86,9	77.7	64,5	52,4	38,5	19.0	69,3	1240
101	TALS	100.0	99.2	96.8	92,6	85.1	74.3	01.7	40,8	21:6	73,6	14601

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5706 RELATIVE HUMIDITY JAN

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

1925 CHASE FIELD, TEXAS

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JAN 1973-DEC 1977

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5709 FREQ. AIR TEMP. VS. WINEDIR. JAN. 68

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TH HOURS (L.S.

					WIND DIE	RECTION					
TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	wzz wz &	wsw & w	WNW & NW	CALM	TOTAL FREQ.	% OF
122+											
117 10 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 10 96											
87 TO 91						100.0				1	.1
82 TO 86				12.5	25.0	62.5				8	.6
77 TO 81	6.9	3.4		17.2	55.2	6.9	3.4	6.9		29	2.3
72 TO 76	3.7	2.4	6.1	19.5	48.8	7.3	7.3	3.7	1.2	82	6.6
67 TO 71	4.6	2.8	2.8	19.4	48.1	8.3	2.8	5.6	5.6	108	8.7
62 TO 66	11.3	6.1	7.0	19.1	33.0	6.1	8.7	6.1	2.6	115	9.3
57 TO 61	19.3	13.6	6.4	18.6	13.6	5.0	3.7	7.1	10.7	140	11.3
52 TO 56	26.1	18.7	14.2	9.0	9.0	.7	4.5	6.0	11.9	134	10.8
47 TO 51	39.0	19.2	11.6	2.9	4.1	.6	3.5	9.9	9.3	172	13.9
42 TO 46	36.0	27.9	9.9	4.1	2.9	2.3	2.9	7.0	7.0	172	13.9
37 10 41	54.3	9.4	3.9	6.3	7.1	2.4	1.6	6.3	8.7	127	10.2
32 TO 36	52.0	20.0		1.3	4.0	1.3	1.3	14.7	5.3	75	6.0
27 TO 31	42.9	26.8	3.6	1.8		1.8	5.4	8.9	8.9	56	4.5
22 10 26	70.0						5.0	20.0	5.0	20	1.6
17 10 21									100.0	1	.1
12 TO 16							1000				
7 TO 11			THE REAL PROPERTY.								
2 10 6											
-3 TO 1											
-8 TO-4											
-13 TO -9											
-18 TO-14											
-23 TO-19								100			
-28 TO-24											P. W.
-33 TO-29											
-38 TO-34			4					100			
-43 TO-39											
-48 TO-44								100			
-53 TO-49											
-58 TO-54											Line
-59 & LWR											
TOTALS	29.0	14.5	7.1	10.1	15.4	3.9	4.2	7.5	7.3	1240	100.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

CHASE FIELD, TEXAS JAN 1973-DEC 1977

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S709 FREQ. AIR TEMP. VS. WIND DIR.

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					WIND DI	RECTION					
TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	wzs wz &	wsw & w	WNW 8 NW	CALM	TOTAL FREQ.	% OF
122+											
17 TO 121								83			
112 10 116											
107 TO 111											
102 TO 106										10.00	
7 10 101											
2 10 96											
37 TO 91					100.0					2	.2
82 TO 86				14.3	42.9	14.3	14.3		14.3	7	.6
7 TO 81	2.6			21.1	60.5	10.5		5.3		38	3.4
72 10 76	14.1		1.1	27.2	42.4	4.3	2.2	8.7		92	8.2
7 10 71	7.4	4.4	4.4	27.2	43.4	5.1	2.9	4.4	.7	136	12.1
52 TO 66	15.3	5.3	5.9	30.6	32.4	2.9	2.4	4.1	1.2	170	15.1
57 10 61	17.7	13.4	15.2	18.3	22.0	1.6	3.7	4.3	3.7	164	14.5
52 TO 56	25.3	22.7	15.3	9.3	9,3	3.3	2.0	6.0	6.7	150	13.3
47 TO 51	29.5	21.8	12.8	4.5	10.3	3.8	1.9	1.9	13.5	156	13.8
12 TO 46	27.8	11.3	15.5	3.1	4,1	3.1	5.2	13.4	16.5	97	8,6
37 10 41	30.5	21.5	3.1	6.2	4.0	4.6	6.2	7.7	15.4	65	5.8
32 TO 36	34.4	9.4				3.1	12.5	25.0	15.6	32	2.8
27 TO 31	46.7							23.3	20.0	15	1.3
22 TO 26	25.0						25.0	50.0		4	.4
17 10 21											
12 10 16											
7 10 11											
2 10 6											
-3 TO 1											
-8 TO-4											
-13 TO -9											1
-18 TO-14											
-23 TO-19											
-28 TO-24											
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO-49											
-58 TO-54											
-59 & LWR	20.3	11.8	9.0	16.0	22,5	3.7	3.3	6.6	6.6	1128	100.0
TOTALS	20.3	11.0	7.0	10.0	56.0	3.1	3.3	0.0	0.0	1150	100.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

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5709 REQ. AIR TEMP. VS. WIND DIR. JAN. 68 LT

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CHASE FIELD, TEXAS JAN 1973-DEC 1977

			·		WIND DIR	ECTION					
TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	wsw & w	WNW 8 NW	CALM	TOTAL FREQ.	% OF
122+		1000									
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96					100.0					1	.1
87 TO 91	16.7	16.7	8.3	8.3	8.3	8.3	16.7	16.7	Du- Orbital	12	1.0
82 TO 86	5.1	5.1	10.2	33.9	20,3	3.4	11.9	10.2		59	4.8
77 TO 81	4.7	6.6	5.7	28.3	42.5	1.9	1.9	6.6	1.9	106	8.5
72 70 76	4.1	4.9	8.1	39.0	35,8	2.8	1.6	3.3	.4	246	19.8
67 TO 71	6.6	10.4	13.9	35.1	27.8	1.5	. 8	2.3	1.5	259	20.9
62 TO 66	14.8	14.4	23.7	21.6	16.1	1.3	1.7	1.7	4.7	236	19.0
57 TO 61	17.3	21.2	26.0	13.5	7.7	2.9	1.0	1.9	8.7	104	8.4
52 TO 56	30.5	23.2	14.7	12.6	4,2		2.1	10.5	2.1	95	7.7
47 TO 51	35.4	24.6	10.8	7.7	4.6	3.1	1.5	6.2	6.2	65	5.2
42 TO 46	37.8	16.2	5.4	2.7	2.7	2.7		10.8	21.6	37	3.0
37 TO 41	68.4	10.5	5.3					10.5	5.3	19	1.5
32 TO 36	00.0									1	.1
27 TO 31											
12 10 26											
17 10 21											
12 TO 16											
7 10 11											
2 10 6											
-3 to 1											
-8 TO-4											
-13 TO -9											
-18 TO-14											
-23 10-19			The state of the s								
-28 TO-24											
-33 TO-29											
-38 TO-34											
-43 TO-39							121				-
-48 TO-44											
-53 TO-49			1		4						
-58 TO-54											
-59 & LWR		-									
TOTALS	13.7	12.3	14.2	25.9	22.0	2.0	2.0	4.4	3.4	1240	100.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

CHASE FIELD, TEXAS

JAN 1973-DEC 1977

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5709 FREQ. CRETEMP. VS. WIND DIR. JAN.68

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TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	ssw & sw	wsw & w	WNW & NW	CALM	TOTAL FREQ.	% OF
122+		1	1	1	1	1	1	1		THEGI	1
117 10 121				1	1						+
112 TO 116		1		1	1	1		1			1
107 TO 111											1
102 TO 106											
97 TO 101					100.0					1	.1
92 10 96					100.0					1	.1
87 TO 91	20.0	30.0	20.0	20.0					10.0	10	. 8
82 TO 86	11.4	1.4	10.0	42.9	22.9	1.4		2.9	7.1	70	5.8
77 10 81	6.6	5.6	7.1	55.8	19.8	1.5	1.5	.5	1.5	197	16.4
72 TO 76	4.9	6.0	8.7	55.9	21.3	.5	.8	.5	1.4	367	30.6
67 10 71	11.0	14.2	21.1	33.5	12.8	.5	.5	2.8	3.7	218	18.2
62 TO 66	19.8	17.4	24.6	18.0	5.4	1.8		4.2	9.0	167	13.9
57 TO 61	27.3	20.5	29.5	6.8		1.1	2.3	3.4	9.1	88	7.3
52 TO 56	4.7	27.9	23.3	14.0		4.7	4.7	2.3	18.6	43	3.6
47 TO 51	30.8	11.5	15.4	11.5		3.8	3.8	7.7	15.4	26	2.2
42 TO 46		50.0	10.0					30.0	10.0	10	. 8
37 TO 41						50,0		50.0		2	.2
32 TO 36											
27 TO 31											
22 10 26										/	
17 10 21											
12 10 16											
7 TO 11				-	-						
2 10 6			-		-						-
-3 TO 1					-			-	-		-
-8 TO-4		-		+	+		1 10	-	-		-
-13 TO -9		-	-	-	-	-	-	-	-		-
-18 TO-14			-			-	-				-
-23 TO-19		+	-	-		-	1		-		+
-28 TO-24		-	-	-	-	-	-	+	+		-
-33 TO-29		-	+	+	-	-	-		-		+
-38 TO-34		-	+			-	-	-	-		-
-43 TO-39		+			+		-	-	-		-
-48 TO-44			-	-	+	-	-		-	-	+
-53 TO-49	-	+	1	1				+			+
-58 TO-54							<del> </del>				+
TOTALS	11.0	11.3	15.3	38.8	14.3	1.3	1.0	2.3	4.9	1200	100.0

### PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

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STOP FREG. AIR TEMP. ... WIND DIR. JAN. 68

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CHASE FIELD, TEXAS MAY JAN 1973-DEC 1977

					WIND DIE	RECTION					
TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	wsw & w	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116						10000					
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96	29.4		5.9	35.3	23.5				5.9	17	1.4
87 TO 91	8.6	4.3	12.9	40.9	28.0	3.2	2.2			93	7.5
82 TO 86	2.8	2.2	9.4	51.9	29.3	2.2		1.1	1.1	181	14.6
77 TO 81	7.4	3.0	8.1	51.0	26,2	.7	1.0	1.0	1.7	298	24.0
72 TO 76	5.2	9.4	20.9	35.8	19.0		.6	2.2	6.9	363	29.3
67 10 71	15.4	14.9	23.4	22.3	6.9	4.0	1.1	2.3	9.7	175	14.1
62 TO 66	37.6	18.8	10.6	3.5	8,2	2.4	4.7	3.5	10.6	85	6.9
57 TO 61	21.7	8.7	13.0			13.0	4,3	13.0	26.1	23	1.9
52 10 56		20.0					20.0	60.0		5	.4
47 TO 51											
42 TO 46								1.00			
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 10 21					8						
12 10 16											
7 10 11											
2 10 6											
-3 TO 1											
-8 TO-4											
-13 TO -9											
-18 10-14											
-23 TO-19											8
-28 TO-24								2111		9	
-33 TO-29											
-38 TO-34											
-43 TO-39	-			1000							
-48 TO-44				188							
-53 TO-49											
-58 TO-54											
-59 & LWR											
TOTALS	9.9	7.7	14.8	37.3	20.1	1.7	1.2	2.1	3.2	1240	100.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

CHASE FIELD, TEXAS

JAN 1973-DEC 1977

JUNE

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C. 68

STORREG. AIR TEMP. VS. WINGER.

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TEMP.	NNW N &	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW W2 &	wsw w &	WNW & NW	CALM	TOTAL FREQ.	% OF
122+	a N	a NE	1 0 1	9.36	9.3	# 24A	a w	- a NW	<del> </del>	PREG.	TOTAL
17 10 121		+	-	+	+			+	+		+
112 TO 116			+	+	+	-					+
107 TO 111			+	+	<del> </del>			-	-		+
102 TO 106		1	1		1			+	<del>                                     </del>		+
97 TO 101		100.0						1	+	1	.1
92 10 96	8.1	10.8	5.4	45.9	24.3			1	5.4	37	3.1
87 TO 91	4	6.3	12.1	43.3	24,3	.4	.4	.4	1.8	224	18.7
82 TO 86	2.2	7.8	10.0	40.9	32.2	3.0	.9	1.3	1.7	230	19.2
77 TO 81	2.8	6.0	14.5	44.3	27.0	.6	.6	.9	3.1	318	26.5
72 10 76	4.8	10.2	18.1	29.4	17.4	2.4	.3	2.7	14.7	293	24.4
67 TO 71	20.5	20.5	21.7	8.4	3.6	1.2		8.4	15.7	83	6.9
62 TO 66	27.3		9.1		9.1			18.2	36.4	11	.9
57 10 61								66.7	33.3	3	.3
52 TO 56											
47 TO 51				DADICE.							
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 10 21											
12 TO 16											
7 10 11											
2 10 6											
-3 TO 1						•					
-8 TO-4		-	-	-	-			-			-
-13 TO -9		-		-	-			1			-
-18 TO-14			-		-			-			-
-23 TO-19			-	-	-				-		-
-28 TO-24		-	-	-	-			-			-
-33 TO-29		+	-	+	-				-		-
-38 TO-34		-	-	-	-	-		-	-		-
-43 TO-39		-	-	+	+			-	-		-
-48 TO-44			-	+	+			+	+		-
-53 TO-49		-	-	-					+		-
-58 TO-54		+		+		-		+	-	·	-
-59 & LWR	4.3	8.6	14.2	36.8	25,3	1.5	.5	2.2	6.8	1200	100.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

CHASE FIELD, TEXAS

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JAN 1973-DEC 1977

JULY

					WIND DIE	RECTION					
TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	wsw & w	WNW & NW	CALM	TOTAL FREQ.	% OF
122+									F		
17 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101			22.7	45.5	27.3				4.5	22	1.5
92 10 96	1.1	2.2	4.3	41.9	39.8	3,2	3.2		4.3	93	7.5
87 TO 91	1.8	1.3	4.4	57.7	30.0	2.2	1.8	.4	.4	227	18.3
82 TO 86		1.6	8.2	41.3	38.0	7.6	1.1		2.2	184	14.8
77 TO 81	1.3	2.3	11.7	44.7	32,3	3.0	1.0		3.7	300	24.2
72 10 76	1.8	8.5	23.8	24.8	16.8	1.3	1.6	.5	20.9	387	31.2
67 10 71	11.1	22.2	7.4	7.4	14.8	11.1	3.7	3.7	18.5	27	2.2
62 TO 66											
57 10 61											
52 TO 56											
47 TO 51											
42 TO 46											
37 10 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 10 21											
12 TO 16											
7 10 11											
2 10 6											
-3 TO 1											
-8 TO-4											
-13 to -9				N. S. S.							
-18 TO-14											
-23 TO-19		-									-
-28 TO-24		-			-				-		-
-33 TO-29											-
-38 TO-34											-
-43 TO-39					-				-		-
-48 TO-44		-				-	-				
-53 TO-49											-
-58 TO-54											
-59 & LWR		1	-	-							-
TOTALS	1.5	4.4	13.1	39.4	28.0	3,1	1.5	.3	8.6	1240	100.0

#### PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.
WIND DIRECTION

JAN 1973-DEC 1977

AUGUST

S709 FREQ. AIR TEMPERS, WIND DIR. JAN. 68

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			T	1	WIND DIR	1			1		1
TEMP.	NNW 8 N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	wsw & w	WNW & NW	CALM	FREQ.	% OI
122+											
117 10 121											
112 10 116											
107 TO 111											
102 TO 106			50.0						50.0	2	.2
97 TO 101	4.2		20.8	41.7	29,2	4.2				24	1.9
92 10 96	2.8	2.8	11.1	46.3	30.6	.9	2.8		2.8	108	8.7
87 TO 91	1.7	5.7	17.1	42.9	22.9	2.3	2.3	.6	4.6	175	14.1
82 TO 86	2.5	8.6	7.6	36.4	34.3	5.1	2.0	.5	3.0	198	16.0
77 TO 81	2.2	5.7	21.6	35.2	23,2	1.9	1.3	.3	8.6	315	25.4
72 10 76	8.7	14.2	20.0	20.0	10.3	. 8	2.1	2.4	21.6	380	30.6
67 TO 71	13.2	21.1	18.4	7.9	5,3		2.6	18.4	13.2	38	3.1
62 TO 66											
57 10 61											
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 10 21											
12 10 16											
7 10 11											
2 10 6											
-3 TO 1											
-8 TO-4											
-13 TO -9											
-18 TO-14		1-1									
-23 TO-19											
-28 TO-24											
-33 TO-29		1		1000							
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO-49											
-58 TO-54											
-59 & LWR		-		75.						1240	-
TOTALS	4.6	8.9	17.3	32.0	21,1	2.0	1.9	1.5	10.6	1240	100.0

NAVWEASERVCOM

CHASE FIELD, TEXAS

3 PERCENTAGE FREQUENCY OF AIR TEMPERATURE 2 VS. WIND DIRECTION 101 JAN 1973-DEC 1977 12925 STATION CHASE FIELD, TEXAS WIND DIRECTION ssw NNE ENE ESE & SE wsw WNW TOTAL % OF TEMP. CALM 68 & NW FREQ. TOTAL & N & NE 122+ 117 TO 121 5709 FREQ. AIR TEMP. VS. WINEDIR. 112 TO 116 107 TO 111 102 TO 106 57.1 97 TO 101 14.3 28.6 20.0 2.5 3.3 60.0 23.6 27.9 40 92 TO 96 10.0 1.8 2.5 2.5 110 3.6 6.4 20.0 6.4 87 TO 91 190 15.8 9.5 9.5 3.2 .5 3.1 3.7 12.6 32.1 82 TO 86 13.8 2.8 2.0 2.4 9.8 10.9 20.1 29.1 77 TO 81 1.3 2.0 4.6 11.7 19.9 23.2 392 32.7 16.8 13.0 72 TO 76 11.7 12.5 13.6 128 32.8 8.6 5.5 29.7 10.7 67 TO 71 12.5 9.1 48 4.0 10.4 43.8 62 TO 66 4.5 22 13.6 9.1 57 TO 61 50.0 20.0 20.0 60.0 52 TO 56 50.0 25.0 0 47 TO 51 25.0 42 TO 46 HOB 32 TO 36 27 TO 31 22 TO 26 0 17 TO 21 12 TO 16 7 10 11 0 2 10 6 -3 TO 1 -8 TO-4 BO4 -13 TC -9 -18 TO-14 -23 TO-19 -28 TO-24 -33 TO-29 -38 TO-34 0 -43 TO-39 -48 TO-44 -53 TO-49 -59 & LWR TOTALS 14.4 16.5 17.3 21.8 14.5 2.3 1.7 4.0 7.6 1200 100.0 0 0 NAVWEASERVCOM

## PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

HASE F	IELD,	TEXAS			JA	N 1973	-DEC 1	977			OBER	ALL
		STATION	NAME				YEAR	S		MON	тн	HOURS (L.S.
	· ·				WIND DIR	ECTION						7
TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	was was	wsw & w	wnw & nw	CALM	TOTAL FREQ.	% OF	
122+	a N	a NE	1 0 0	9.35	- 0.3	a 3W	a w	anw	-	PREQ.	TOTAL	-
117 TO 121							+	+	-		+	-
112 TO 116	-	-					-		1		_	+
107 TO 111							1				-	
102 TO 106												
97 TO 101			50.0				50.0			2	.2	
92 TO 96					100.0					4	.3	
87 TO 91		3.8	3.8	50.0	38.5		3.8			26	2.1	
82 TO 86	3.1	5.4	8.5	44.6	26.2	2.3	. 8		9.2	130	10.5	
77 10 81	7.5	8.0	16.0	41.2	19.3	1.6	.5	.5	5.3	187	15.1	
72 TO 76	12.1	16.2	19.8	31.2	9.7	. 8	2.0	1.2	6.9	247	19.9	
67 TO 71	17.4	23.7	26.5	16.6	5,1	1.6	.8	.4	7.9	253	20.4	
62 TO 66	20.8	23.1	16.8	11.0	.6		1.2	4.6	22.0	173	14.0	
57 TO 61	28.0	15.9	8.4	8.4	1.9	.9	2.8	12.1	21.5	107	8.6	
52 TO 56	43.1	19.0	1.7		1.7	6.9	1.7	19.0	6.9	58	4.7	
47 TO 51	28.9	23.7	-		2.6	2.6	2.6	18.4	21.1	38	3.1	
42 TO 46	44.4	-	-		+	-		22.2	33.3	9	• 7	
37 TO 41	16.7	-						63.3	-	6	.5	-
32 TO 36		-	-	-		-	-					+
27 TO 31		-			+	-	-	-	-		-	-
22 10 26		-	+	+	+	-	+	+	-		+	-
17 10 21	-	-	+	+	1		+	-			-	-
12 TO 16 7 TO 11		1	<del> </del>	-	-		-				+	· .
2 10 6						-	+	+			+	-
-3 TO 1												-
-8 TO-4			1		1							
-13 TO -9							1	1				
-18 TO-14												
-23 TO-19												The Market
-28 TO-24												
-33 TO-29												
-38 TO-34								-				
-43 TO-39												
-48 TO-44												

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-59 & LWR TOTALS 16.0 16.1 16.0 23.8 10.2 NAVWEASERVCOM

-58 TO-54

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

CHASE FIELD, TEXAS JAN 1973-DEC 1977

					WIND DIR	ECTION					
TEMP.	NNW .	NNE & NE	ENE & E	ESE & SE	55E & 5	SSW & SW	wsw & w	www & NW	CALM	TOTAL FREQ.	% OF
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91				50.0	50.0					2	.2
82 TO 86				21.1	63.2	7.9	2.6	2.6	2.6	38	3.2
77 TO 81	8.8	2.2	6.6	31.9	39,6	3.3	2.2	3.3	2.2	91	7.6
72 TO 76	6.4	4.5	6.9	41.6	31.7	2.0	2.0	1.5	3.5	202	16.8
67 TO 71	13.5	11.2	14.7	27.1	16.5	1.8	2.4	2.9	10.0	170	14.2
62 TO 66	25.6	15.5	15.5	14.5	12.1	.5	.5	4.8	11.1	207	17.3
57 TO 61	32.3	23.6	15.5	8.7	5.6		.6	7.5	6.2	161	13.4
52 TO 56	41.0	15.4	9.4	6.8	1.7	5.1	3.4	6.0	11.1	117	9.8
47 TO 51	36.3	25.0	6.3	5.0	2.5	1.3	1.3	7.5	15.0	80	6.7
42 TO 46	32.8	17.9	4.5		1.5			29.9	13.4	67	5.6
37 TO 41	45.9	18.9	5.4	5.4				10.8	13.5	37	3.1
32 TO 36	36.8	10.5		10.5				26.3	15.8	19	1.6
27 TO 31	55.6	11.1						33.3		9	.8
22 TO 26	Falls										
17 10 21											
12 TO 16											
7 10 11											
2 10 6											
-3 TO 1											
-8 TO-4						Harrier .					
-13 TO -9											
-18 TO-14											
-23 TO-19											
-28 TO-24											
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO-49											
-58 TO-54			No.			E TAIL					
-59 & LWR											
TOTALS	23.1	13.3	10.3	19.0	16.0	1.8	1.5	6.6	8.5	1200	100.0

STORTER O. AIR TEMP. VS. WIND DIR.

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# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

JAN 1973-DEC 1977 CHASE FIELD, TEXAS

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STOP FREQ. CETEMP. VS. WIND DIR. JAN. 68

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					WIND DI	RECTION					
TEMP.	NNW .	NNE & N.	ENE & E	ESE & SE	SSE & S	wzz wz &	wsw & w	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 10 121											
112 TO 116											
107 TO 111											1.
102 TO 106											
97 TO 101	Consider.										
92 TO 96											
87 TO 91	50.0						50.0			2	.2
82 TO 86	9.1				45.5	27.3		18.2		11	.9
77 TO 81	8.6			14.3	57.1	14.3		2.9	2.9	35	2.8
72 10 76	9.4	4.7	4.7	15.6	39,1	10.9	7.8	6.3	1.6	64	5.2
67 TO 71	7.5	6.7	3.7	18.7	49.3	4.5	3.7	2.2	3.7	134	10.8
62 TO 66	12.5	9.9	13.2	17.8	26.3	4.6	5,3	4.6	5.9	152	12.3
57 TO 61	19.6	11.7	22.3	12.3	14,5	3.4	1.7	5.0	9.5	179	14.4
52 TO 56	30.1	21.0	10.8	4.0	8,5	2.8	2.8	8.5	11.4	176	14.2
47 TO 51	40.7	24.2	3.6	4.6	4.1	2.1	1.0	8.8	10.8	194	15.6
42 TO 46	37.1	19.2	4.8	2.4	4.2	3.0	4.8	12.6	12.0	167	13.5
37 TO 41	39.3	6.0	7.1	2.4	4.8	2.4	4.8	20.2	13.1	84	6.8
32 TO 36	43.8	15.6				6.3	3.1	25.0	6.3	32	2.6
27 TO 31	22.2							55.6	22.2	9	.7
22 TO 26	00.0									1	.1
17 10 21											
12 10 16		100									
7 10 11											
2 10 6											
-3 TO 1											
-8 10-4											
-13 TO -9											
-18 TO-14											
-23 TO-19											
-28 TO-24											
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44		THE STATE OF									
-53 TO-49											
-58 TO-54											
-59 & LWR											
TOTALS	25.7	14.0	8.7	9.0	17.4	4.2	3.4	8.8	8.8	1240	100.0

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#### PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

WIND DIRECTION

12925 CHASE FIELD, TEXAS

JAN 1973-DEC 1977

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5709 FREQ. AIR TEMPINE. WIND DIR.

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RECTION

					WIND DIR	ECTION					
TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	ssw & sw	wsw & w	WNW & NW	CALM	TOTAL FREQ.	% OF
122+										1	1
117 TO 121			-		+			-	+	1	1
112 TO 116		+		1			-		1		+
107 TO 111				1				-	+	<del> </del>	+
102 TO 106		1	50.0	+	+			-	50.0	2	.0
97 TO 101	5.3	8.8	19.3	36.8	24.6	1.8	1.8	1	1.8	57	.4
92 TO 96	4.3	3.3	7.6	39.9	37.5	1.7	2.0	.3	3.3	301	2.1
87 TO 91	2.7	5.0	11.9	44.6	28.6	2.4	1.7	.8	2.4	884	6.1
82 TO 86	3.8	5.4	9.0	39.4	31.7	4.5	1.5	1.5	3.2	1306	8.9
77 TO 81	5.2	6.1	12.9	40.4	26.9	2.2	1.2	1.5	3.6	2168	14.8
72 10 76	7.0	10.2	16.4	31.0	19.6	1.7	1.7	2.4	9.9	3115	21.3
67 TO 71	12.9	14.7	15.4	22.7	19.8	2.7	1.7	3.3	6.7	1729	11.8
62 TO 66	19.9	13.7	15.2	17.6	15.9	2.1	2.4	4.4	8.8	1364	9.3
57 10 61	23.3	16.0	16.9	12.4	10.1	2.4	2.6	6.4	9.9	991	6.8
52 TO 56	29.5	20.4	12.4	7.5	6.1	2.9	3.2	8.6	9.3	783	5.4
47 10 51	35.9	22.0	8.6	4.5	5,0	2.2	2.0	7.9	11.8	735	5.0
42 TO 46	34.2	20.4	8.2	2.7	3,2	2.3	3.2	13.4	12.3	559	3.8
37 TO 41	45.0	11.8	4.7	4.7	4.7	2.6	2.9	12.4	11.2	340	2.3
32 10 36	45.3	15.7		1.9	1.9	2.5	3.8	20.1	8.8	159	1.1
27 10 31	42.7	18.0	2.2	1.1		1.1	3.4	20.2	11.2	89	.6
22 10 26	64.0						8.0	24.0	4.0	25	.2
17 10 21									100.0	1	.0
12 TO 16											
7 10 11											
2 10 6											
-3 TO 1											
-8 TO-4											
-13 TO -9											
-18 TO-14			2-11								
-23 TO-19											
-28 TO-24											
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO-49											
-58 TO-54				PER CO							
-59 & LWR		1 5 /4									
TOTALS	14.4	11.6	13.1	25.8	19.0	2.4	2.0	4.2	7.4	14608	100.0

NWSD, Federal Building Asheville, N. C.

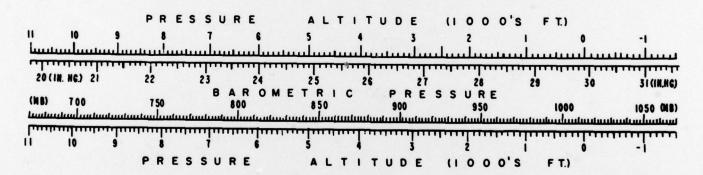
#### PART F

### PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

- 1. Station pressure in inches of mercury.
- 2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



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## MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HE FROM HOURLY OBSERVATIONS

12925

CHASE FIELD, TEXAS

73-77

STATION		

STATION				TATION NAME						YEARS	
S.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ОСТ
	MEAN	20 011	20 002	20 720	445 00	00 407	00 723	9 801	00. 987	20.761	00.1

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
	MEAN	29,911	29.893	29.729	29,766	29.697	29,733	29.801	291787	29,761	29,854	29,870	29,902	29,808
00	S. D.	.204	.194	.168	.181	.133	.099	.060	,053	,099	,132	,188	.190	.166
	TOTAL OBS	155	141	155	150	155	150	155	155	150	135	150	155	1826
	MEAN	29,897	29.878	29.708	29.739	29.670	29.718	29.786	29,774			29,856	29,883	29.791
03	S. D.	.204	.194	.170	.181	.134	.097	.060	.053	.101	,132	.190	.190	.168
	TOTAL OBS	155	141		150	155	150				155	150	155	1826
	MEAN	29.895	29.883	29.715	29.754	29.686	29.729	29,798	29.783	49.757	29,851	29,867	29,881	29.800
06	S. D.	.202	.190	.172	.181	.133		.063		.104	,135	,189	.193	.166
-	TOTAL OBS	155			150				155	150	139	150	155	1826
	MEAN	29.943	29.931	29.763	29.794	29.720	29.762	29.828	29.814	29.790	29,893	29,912	29.926	29,839
09	S. D.	.203			.183	and the same of th		.065		.106	,137	189	193	.169
	TOTAL OBS	155	F. C. C. C. C. C.		150				155	150	135	,150	155	1826
	MEAN	29,939	29.928	29.753	29.783	29.709	29.754	29.819	29,804	29.777	29,877	29,897	29,913	29,829
12	S. D.	.205	The state of the s	at the same of the same	.181	Mr. Committee and the second	.098	.063	.057	.105	.137	.192	.196	.170
	TOTAL OBS	155			150	155			155	150	139	150	155	1826
	MEAN	29.862	29.844	29.676	29.728	29.666	29.712	29.771	29,750	29,716	29,812	29,829	29.841	29,767
15	S. D.	.208	.193		.180		.101	.064	,058	,103	,135	+191	.196	.166
	TOTAL OBS	155			150	155	150		1058	150	135	150	155	1826
	MEAN	29.868	29.839	29.665	29.710	29.639	29,686	29.747	29,734	29.710	29,811	29,836	29,848	29,758
18	S. D.	.207	.193		.161							,192	.193	.170
•	TOTAL OBS	155			190				155		135		155	1826
	MEAN	29.902	29.884	29.713	29.753	29.678	29.714	29.777	29,707	29.753	29,849	27,874	29,887	29,799
21	S. D.	.208	7 7 7 7 7	.168	.180	W	A THE PARK LICENSES WELL	.059	1052	.101	.136	.193	.190	
	TOTAL OBS	155			150			155	133	150	130	150	155	1020
	MEAN	29.902	29.885	29.715	29.753	27,683	29.726	29,791	29,777	29,751	27,848	27,868	27,885	29,798
ALL	S. D.	.206	2 2 2 2 2		.182						.137	.192	.194	.170
HOURS	TOTAL OBS	1240									1240		1240	14608

### **MEANS AND STANDARD DEVIATIONS**

SEA LEVEL PRESSURE IN MBS TROM HOURLY DESERVATIONS

12925

CHASE FIELD, TEXAS

73-77

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
	MEAN	1019.9	1019.2	1013.6	1014.8	1012.4	1013.7	1015.9	1015,5	1014.6	1017,8	1018.4	1019.5	1016.3
00	S. D.	6.980	6.609	5.722	6.142	4.531	3.356	2.028	1.791	3.364	4.484	6.419	6.455	5.675
	TOTAL OBS	155								150		150		1826
	MEAN	1019.4	1018.7	1012.9	1013.9	1011.6	1013.2	1015.4	1015,1	1014.1	1017,3	1017.9	1018.9	1015,7
03	S. D.	6.970	6.598	5.788	6.130	4.538	3.303	2.021	1.808	3.443	4,512	6,483	6,464	5.725
	TOTAL OBS	155				155			155			150		1826
	MEAN	1019.4	1019.0	1013.1	1014.4	1012.1	1013.5	1015.9	1015.4	1014.5	1017.8	1018.3	1018.9	1016.0
06	S. D.	6.902	6.471	5.862	6.160	4.508	3.328	2.109	1.854	3.538	4.607	6.457	6.584	5.689
	TOTAL OBS	155	141	3.862	150	155	150	155	155	150	155	150	155	1826
	MEAN	1021.0	1020.5	1014.7	1015.8	1013.2	1014.6	1016.8	1016,9	1015.6	1017,1	1019.8	1020,4	1017,3
09	S. D.	6,943	6.534	5.912	6.208	4.600	3,311	2.165	1,927	3.593	4,655	6,452	6,602	5.765
	TOTAL OBS	155				155			155	150	155	150		1826
	MEAN	1020.7	1020.3	1014.3	1015.3	1012.8	1014.3	1016.5	1016,0	1015,1	1018,5	1019.2	1019,8	1016,9
12	S. D.	7.008	6,584	5,927	6.130	4.595	3,301	2.109	1,995	3.540	4,633	6,535	6,694	5,800
	TOTAL OBS	155			150				155	150	155	150		1826
	MEAN	1018.1	1017,5	1011.7	1013,4	1011.3	1012.9	1014,9	101411	1013,0	1010,3	1016,9	1017,4	1014,8
15	S. D.	7.125	6,612	5,934	6.084	4.560	3.407	2.160	1,977	3,495	4,595	6,508	6,672	5,679
	TOTAL OBS	155		155	150	155	150	155	155	150	155	150	155	1826
	MEAN	1018.3	1017,3	1011.4	1012.9	1010.4	1012.0	1014.1	101310	1012,5	1010,3	1017,2	1017.7	1014,5
18	S. D.	7,085	6,566	5,848	6.122	4.610	3,361	2.143	1,890	3,460	4,578	6,531	6,366	5,802
	TOTAL OBS	155			150		150	155	155	150	155	150	155	1836
	MEAN	1019.6	1018,9	1013.0	1014.4	1011.8	1013.0	1015.1	101417	1014,3	1017,0	1018,5	1019,0	1015,8
21	S. D.	7.086	6,536	5,714	6.095	4.589	3,391	1.999	11775	3,424	4,631	6,588	6,467	5,774
	TOTAL OBS	155				155	150		155	150	155	150	155	1826
ALL	MEAN	1019.5	1018,9	1013.1	1014.4	1012.0	1013.4	1015,6	1015,1	1014,3	1017,6	1018,3	1019,0	1015,9
HOURS	S. D.	7.056	6.632	5.921	6.161	4.627	3.423	2.246	2.052	3.501	4,663	6.539	6.613	5,809
	TOTAL OBS	1240	1128	1240	1200	1240	1200	1240	1540	1200	1240	1500	1240	14608

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5707 MEANS AND STANDARD DEVIATIONS JAN 68

THE STANDARD ACCOUNTY, D. S. A.

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